

Time and temperature abuse of foods is a leading cause of foodborne illness - a critical responsibility that managers must take precautions against, but without the right tools and devices can be extremely challenging. Rely on our thermometers and other temperature-sensing devices to check food during storage, transport and preparation.

- > Infrared Thermometers
- **>** Dual Thermometers
- **>** Probe Thermometers
- **>** Food Thermometers
- **>** Freezer/Refrigerator Thermometers
- **>** Oven/Hot Thermometers
- **>** Cooking/Cooling Thermometers
- **>** Dishwasher Thermometers
- **>** Reference Thermometers
- **>** Sous Vide Solutions
- **>** Thermo Hygrometers
- **>** Digital Timers
- **>** Data Loggers
- > Probe Wipes / Test Strips
- **>** Monitoring & Testing Systems
- Scales

# Mini RayTemp® Infrared Thermometer



- Target distance/diameter ratio 12:1
- Laser dot alignment
- Backlit LCD display
- Compact, lightweight & easy to use

# RayTemp® 2 Plus Infrared Thermometer



- · Adjustable emissivity for different surfaces
- · FREE traceable certificate of calibration

# **RayTemp® 3 Infrared Thermometer**



• +/-1 °C accuracy over the critical food range

Temperature, Time & Portion Control

- Circular laser for precise targeting
- · Compact, lightweight & easy to use
- Temperature range -60 to 500°c



























Item Code	SP-814-080
Feature	Specification
Range	-50 to 330°C
Resolution	0.1 °C/°F
Accuracy - infrared	+/-2°C (0 to 330°C) otherwise +/-4°C or +/-4 % whichever is greater
Field of view	target ratio 12:1
Emissivity	0.95 fixed
Battery	9 volt PP3 alkaline
Battery life	80 hours continuous use
Display	custom LCD
Backlight	Yes
Dimensions	36 x 88 x 131mm
Weight	143 grams
Case material	ABS plastic

Item Code	Item
SP-228-120	Infrared Thermometer
SP-830-227	Protective silicone boot
SP-814-132	Comparator

Feature	Specification
Range	-49.9 to 349.9°C
Resolution	0.1°C & 1°C
Accuracy	+/-1 °C (0 to 100 °C) otherwise +/-2 °C or +/-2 % of reading whichever is greater
Field of view	target ratio 5:1
Emissivity	0.95 default - adjustable 0.01 to 1
Battery	3 x 1.5 volt AAA
Battery life	5000 hours continuous
Sensor type	infrared
Display	12mm (horizontal) & 10mm (vertical) LCD
Backlight	Yes
Dimensions	25 x 56 x 128mm
Weight	130 grams
Case material	ABS plastic with Biomaster anti-bacterial additive
Certification	FREE traceable calibration certificate

Item Code	SP-814-040
Feature	Specification
Range	-60 to 500°C
Resolution	0.1°C or °F (-9.9 to 199.9°C) or 1°C
Accuracy - infrared	+/-1°C (0 to 65°C) otherwise +/-2°C or +/-2% of reading whichever is greater
Field of view	target ratio 12:1
Emissivity	0.97 fixed
Battery	2 x 1.5 volt AAA
Battery life	140 hours continuous use
Display	custom LCD
Backlight	Yes
Dimensions	40 x 66 x 155mm
Weight	180 grams
Case material	ABS plastic
Guarantee	one year





- Infrared thermometer for noncontact surface temperature measurements
- 10:1 optics and high resolution processor for accurate measurement
- Easy to use thanks to the gun-style design
- Adjustable emission level





- · Infrared thermometer for noncontact surface temperature measurements
- 12:1 optics and high resolution processor for accurate measurement
- · Contact measurement possible with connectable temperature probe (TC type K)
- · Adjustable emission level





- Non-contact, non-invasive temperature measurements due to IR technology
- Precise temperature measurements also of smaller products and from a distance
- Ultra-fast: two measurements per second - allows you to scan whole pallets in the blink of an eye
- Includes 2-point laser measuring spot marking, 30:1 optics, belt clip, batteries

Item Code	SP-Testo 830-T1
Feature	Specification
Weight	200 g
Dimensions	190 x 75 x 38 mm
Operating temperature	-20 to +50 °C
Product-/housing material	ABS
Battery type	9V block battery
Battery life	15 h
Storage temperature	-40 to +70 °C
Measuring range	-30 to +400 °C
Accuracy	+/-1.5 °C or +/-1.5 % of mv (+0.1 to +400 °C) +/-2 °C or +/-2 % of mv (-30 to 0 °C) (the higher value applies)
Measuring rate	0.5 s
Infrared resolution	0.1 °C

Item Code	SP-Testo 830-T2
Feature	Specification
Weight	200 g
Dimensions	190 x 75 x 38 mm
Operating temperature	-20 to +50 °C
Product-/housing material	ABS
Battery type	9V block battery
Battery life	15 h
Storage temperature	-40 to +70 °C
Measuring range	-30 to +400 °C
Accuracy	+/-1.5 °C or +/-1.5 % of mv (+0.1 to +400 °C) +/-2 °C or +/-2 % of mv (-30 to 0 °C) (the higher value applies)
Measuring rate	0.5 s
Infrared resolution	0.1 °C

Item Code	SP-Testo 831
Feature	Specification
Weight	200 g
Dimensions	190 x 75 x 38 mm
Operating temperature	-20 to +50 °C
Protection class	IP30
Measuring rate	0.5 sec.
Battery type	9V block battery, 6F22
Battery life	15 h
Display type	LCD (Liquid Crystal Display)
Display ligthing	illuminated
Storage temperature	-40 to +70 °C
Measuring range	-30 to +210 °C
Accuracy	+/-1.5 °C or +/-1.5 % of mv (-20 to +210 °C) +/-2 °C or +/-2 % of mv (Remaining Range)
Infrared resolution	0.1 °C

#### **ThermoTrace® Waterproof Infrared Thermometer**





- Instant non-contact surface temperature measurement.
- Useful with moving products or for hard to reach places.
- Completely waterproof (IP67 compliant)
- Two measuring modes: normal and continuous
- Alarm settings for high and low temperature limits
- Memory function holds up to 99 points of temperature data

#### ThermoTrace® Waterproof Infrared Thermometer -40°C



Item Code



# • Instant non-contact surface temperature

- measurement. • Useful with moving products or for hard
- Completely waterproof (IP67 compliant)
- Two measuring modes: normal and continuous
- Alarm settings for high and low temperature limits

to reach places.

• Memory function holds up to 99 points of temperature data

#### **Infrared Gun Thermometer**



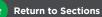
Item Code

- 12:1 Field of View
- Emissivity fixed 0.95
- IR Sensor: Instant, non-contact, surface temperature measurement
- Dual Scale °C / °F switchable
- · Automatic data hold
- Jumbo LCD display Bright large back-lit
- National Lab Standard Traceable

Item Code	SP-15006
Feature	Specification
Field of View	D:S=15:1 At D=1 meter(39.4"); S=66.7mm(2.6")
Temperature Range	32°F to 932°F (0°C to 500°C)
Display Range*	14°F to 1202°F (-10°C to 650°C)
Environmental Operating Range	14°F to 122°F (-10°C to 50°C)
Response Time	Less than 1 second
Accuracy	+/-3.6°F (+/-2°C) from 32°F to 392°F (0°C to 200°C) otherwise 1% of reading
Environmental Humidity Range	0% to 95% RH (without dew condensation)
Display Hold Time	15 seconds
Scale	°F/ °C selectable
Repeatability	+/-2°F (1°C) of reading value
Body Casting	ABS plastic
Battery	9v alkaline (12 hour life)
Emissivity	Dark (.95)/Bright (.70) switchable
Display Resolution	1°F (1°C)
Sighting Method	Offset laser, Class 2, 670nm
Weight	7.05oz. (200g) including battery
Size	6.3 in. (L) x 1.7 in. (W) x 1.65 in. (D) (15cm x 4cm x 4 cm)

Feature	Specification
Field of View	D:S=15:1 At D=1 meter(39.4"); S=66.7mm(2.6"); minumum spot size = 12.7mm (0.5 in.)
Temperature Range	-22°F to 392°F (-30°C to 200°C)
Display Range*	-40°F to 428°F (-40°C to 220°C)
Response Time	Less than 1 second
Accuracy	+/-1°F at 75.2°F (+/-0.5°C at 24°C) +/- 1.8°F from 32°F to 212°F (+/-1°C from 0°C to 100°C)
Environmental Humidity Range	0% to 95% RH (without dew condensation)
Display Hold Time	15 seconds
Scale	°F/ °C selectable
Repeatability	+/-2°F (1°C) of reading value
Body Casting	ABS plastic
Battery	9v alkaline (15 hour life)
Emissivity	Hot (.95); Cold (.85) switchable
Display Resolution	0.1°F (0.1°C)
Sighting Method	Offset laser, Class 2, 670nm
Weight	7.05oz. (200g) including battery
Size	6.3 in. (L) x 1.7 in. (W) x 1.65 in. (D) (15cm x 4cm x 4 cm)

Feature	Specification
Measurement Range	-76°F to 932°F (-60°C to 500°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	"+/-4°F from -76°F to 14°F ( +/-2°C from -60 to -10°C) +/-2°F from 14°F to 95°F ( +/-1°C from -10 to 35°C) +/-4°F from 95°F to 932°F ( +/-2°C from 35 to 500°C) or 2% of reading whichever is greater"
Emissivity	0.95 fixed
Display Resolution (-9.9~199.9°C)	0.1°F / 0.1°C, otherwise 1°F / 1°C
Response Time (90%)	1 second
Field of View	12:1 Distance to spot ratio
Battery	AAA x 2pcs / 14-18 hours continuous use
Auto Shut Off	After 15 seconds idle
Dimensions	175.2 x 39.0x71.9mm (6.9x1.54 x 2.83")
Weight	179 grams (6.31oz) including batteries



#### Thermapen® IR® Infrared thermometer with foldaway probe



- · Patented, automatic 360° rotational display
- Adjustable emissivity for different surfaces
- · Motion-sensing sleep mode probe only
- · FREE traceable certificate of calibration included (probe & IR)











Item Code

YEAR	7/

Item Code	Item
SP-228-065	Thermapen® IR
SP-830-480	Protective silicone boot
SP-830-001	Zip pouch
SP-832-002	S/steel wall bracket

Feature	Specification
Range - Infrared	-49.9 to 349.9°C
Range - Probe	-49.9 to 349.9°C
Resolution	0.1 or 1°C/°F - user selectable
Response Time	Less than 1 second
Accuracy - Infrared	+/-1°C (0 to 100°C) otherwise +/-2°C or +/-2% of reading whichever is greater
Accuracy - Probe	+/-0.4°C (-49.9 to 199.9°C) otherwise +/- 1°C
Field Of View	target ratio 5:1
Emissivity	0.95 default - adjustable 0.1 to 1.00
Battery	2 x 3 volt CR2032 lithium coin cell
Battery Life	1000 hours continuous use
Display	12mm (horizontal) & 10mm (vertical) LCD - 360° rotation
Dimensions	19 x 50 x 157mm
Weight	125 grams
Certification	FREE traceable calibration certificate

#### Testo® 104 Waterproof Food Thermometer



- Ideal for use with food: HACCP compliant, EN 13485 certified
- · Can be cleaned under running water - IP65 rated
- Practical folding mechanism with rugged metal joint; easy and ready to use
- Automatic final value recognition (auto-hold); min/max memory for all hold/auto-hold readings

# ThermoTrace Infrared/Thermocouple Probe Combo **Thermometer**



· Lightweight, compact, 2-in-1 design

Temperature, Time

& Portion Control

- Thermocouple probe for internal product temperature
- · Infrared for instant non-contact surface measurement
- Multi-beam laser for accurate targeting
- · Ideal for extremely hot areas, moving objects, hard to reach places
- · Green backlight indicates HACCP food safety
- · Red backlight indicates HACCP danger zone
- Min/Max memory in IR mode
- · NSF Certified, NIST traceable calibration
- Fast 3 second thermocouple reading
- · Instant infrared reading
- Low battery indicator

Feature	Specification
Weight	165 g (incl. batteries)
Dimensions	265 x 47 x 20 mm (Probe folded out) 163 x 47 x 20 mm (probe folded away)
Operating temperature	-20 to +60 °C
Product-/housing material	TPE/PC + ABS/PC + ABS + 10% GF
Protection class	IP65
Product colour	white
Length probe shaft	102 mm
Length probe shaft tip	32 mm
Diameter probe shaft	3 mm
Diameter probe shaft tip	2.3 mm
Futher features	Auto hold, hold, min./max.
Measuring rate	0.5 s
Standards	EN 13485
EU-/EG-guidelines	2004/108/EG
Battery type	2 AAA micro batteries
Battery life	100 h (at +25 °C without display illumination)
Display type	LCD (Liquid Crystal Display)
Display size	one-line
Display ligthing	illuminated
Storage temperature	-30 to +70 °C
Measuring range	-50 to +250 °C
Accuracy	+/-1.0 °C (-50 to -30.1 °C) +/-0.5 °C (-30 to +99.9 °C) +/-1 % of mv (+100 to +250 °C)
Resolution	0.1 °C
Reaction time	$t_{99}$ = 10 s (measured in moving liquid)

#### Item Code Feature Specification Field of View 8:1 (85% energy collecting) Infrared Measurement Range -76°F to 662°F (-60°C to 350°C) Probe Measurement Range -76°F to 662°F (-60°C to 350°C) 32°F to 122°F (0°C to 50°C) Operating Range Infrared Accuracy +/-1.1°F (0.6°C) Probe Accuracy $< 23^{\circ}F = +/-2^{\circ}F (-5^{\circ}C = +/-1^{\circ}C)$ 23°F to 149°F +/-1°F (-5°C to 65°C = +/-0.5°C) >149°F (65°C) = +/-1% of reading Response Time Less than 1 second Display Hold Time 15 seconds Display Resolution 0.5°F (0.2°C) from 9.9 to 199.9 °F/°C otherwise 1°F/°C **Emissivity Range** Factory set at 0.95 - adjustable 0.1 to 1.00 step 0.01 Field of View 8:1 Distance to spot ratio Battery & Battery Life AAA x 2. Typ. 18 min. 14 hours continuous use, auto power off after 15 seconds Sighting Method Multi-beam laser Weight 145 grams (5.11 oz) including batteries Dimensions 1.55 in. x 2.08 in.x 6.22 in. (39.3mm x 52.9mm x 158mm) Probe Stainless steel, 3.74in (95 mm) IP54 IP Rating LED Backlight Green = HACCP Safe Zone <40°F and >140°F (<4°C and > 60°C) Red = HACCP Danger Zone 40°F to

140°F (4°C to 60°C)



#### Testo® 103 Penetration Thermometer



Item Code

- Ideal for use with food: HACCP compliant, certified according to EN 13485
- Splash water protected IP55 rated
- Practical folding mechanism for quick 'n easy measuring; fits in any shirt or trouser pocket
- Easy-to-use, high-precision technology

# **Waterproof Pocket-Sized Thermometer**



• Easy to use, pocket-sized thermometer

Temperature, Time & Portion Control

- Max/min memory function
- Perfect as dishwasher thermometer







Feature	Specification
Weight	46 g (including battery)
Dimensions	189 x 35 x 19 mm (probe folded out) 115 x 35 x 19 mm (probe folded away)
Operating temperature	-20 to +60 °C
Product-/housing material	ABS
Protection class	IP55
Product colour	white
Length probe shaft	75 mm
Length probe shaft tip	22 mm
Diameter probe shaft	3 mm
Diameter probe shaft tip	2.3 mm
Switch on/off	With folding mechanism (approx. 30°) / Auto off after 60 mins.
Measuring rate	0.5 s
Standards	EN 13485
Battery type	2 lithium batteries (CR2032)
Battery life	300 h (at +25 °C)
Display type	LCD (Liquid Crystal Display)
Display size	one-line
Display ligthing	non-illuminated
Storage temperature	-30 to +70 °C
Measuring range	-30 to +220 °C
Accuracy	+/-0.5 °C (-30 to +99.9 °C) +/-1.0 % of mv (+100 to +220 °C)
Resolution	0.1 °C
Reaction time	$t_{99}$ = 10 s (Measured in moving liquid)

Item Code	Item
SP-810-275	Waterproof thermometer
SP-830-275	Protective silicone boot

Feature	Specification
Range	-49.9 to 199.9 °C
Resolution	0.1 °C/°F
Accuracy	+/-0.5 °C (-9.9 to 99.9 °C) otherwise +/-1.5 °C
Battery	3 volt CR2032 lithium coin cell
Battery life	5000 hours
Sensor type	Thermistor
Display	8 mm LCD
Dimensions	15 x 26 x 200 mm
Weight	25 grams

# **Thermapen® Professional Thermometer**



- SuperFast reaches temperature in just 3 seconds
- FREE traceable certificate of calibration
- · Patented, automatic 360° rotational display
- Waterproof to IP66/67



# Thermapen® Classic Thermometer



- SuperFast reaches temperature in just 3 seconds
- Over 50 % faster than traditional
- · FREE traceable certificate of calibration
- Simple & lightweight to use

# Thermalight® 1 & 2 Thermometer



- Reduced tip provides faster & more accurate readings
- ThermaLite 2 includes CalCheck 0.0 °C function
- FREE traceable certificate of calibration
- · Assured accuracy for the life of the thermometer



































ì
ı
ı

Item Code	Item
SP-234-407	Thermapen Professional - Grey
SP-234-417	Thermapen Professional - White
SP-234-427	Thermapen Professional - Yellow
SP-234-437	Thermapen Professional - Green
SP-234-447	Thermapen Professional - Red
SP-234-457	Thermapen Professional - Blue
SP-234-477	Thermapen Professional - Black
SP-234-487	Thermapen Professional - Orange
SP-234-497	Thermapen Professional - Pink
SP-234-507	Thermapen Professional - Purple
SP-830-460	Protective silicone boot
SP-830-465	Silicone boot - glow in dark
SP-830-110	Protective wallet
SP-830-001	Zip pouch
SP-832-002	Stainless steel wall bracket

Feature	Specification
Range	-49.9 to 299.9 °C
Resolution	0.1 °C or 1 °C - user selectable
Accuracy	+/-0.4 °C (-49.9 to 199.9 °C) otherwise +/-1 °C
Battery	1 x 1.5 volt AAA
Battery life	3000 hours (normal use, without backlight)
Sensor type	K thermocouple
Display	14.5 mm (horizontal) & 12 mm (vertical) LCD
Dimensions	19 x 50 x 157 mm
Weight	120 grams
Certification	FREE traceable certificate of calibration included

Item Code	Item
SP-231-217	Thermapen Classic - white
SP-231-227	Thermapen Classic - yellow
SP-231-237	Thermapen Classic - green
SP-231-247	Thermapen Classic - green
SP-231-257	Thermapen Classic - green
SP-830-260	Protective silicone boot
SP-830-265	Silicone boot - glow in dark
SP-830-110	Protective wallet
SP-830-001	Zip pouch
SP-832-002	Stainless steel wall bracket

Specification
-49.9 to 299.9 °C
0.1 °C or 1 °C - user selectable
+/-0.4 °C (-49.9 to 199.9 °C) otherwise +/-1 °C
2 x 3 volt CR2032 lithium coin cell
1500 hours
K thermocouple
14.5 mm LCD
19 x 47 x 153 mm
97 grams
FREE traceable certificate of calibration included













Item Code	Item
SP-226-101	ThermaLite 1 - grey
SP-226-111	ThermaLite 1 - white
SP-226-121	ThermaLite 1 - yellow
SP-226-131	ThermaLite 1 - green
SP-226-141	ThermaLite 1 - red
SP-226-151	ThermaLite 1 - blue
SP-226-201	ThermaLite 1 - grey - Surface
SP-226-102	ThermaLite 2 - grey
SP-226-112	ThermaLite 2 - white
SP-226-122	ThermaLite 2 - yellow
SP-226-132	ThermaLite 2 - green
SP-226-142	ThermaLite 2 - red
SP-226-152	ThermaLite 2 - blue
SP-226-202	ThermaLite 2 - grey - Surface
SP-830-280	Protective silicone boot

Feature	Specification
Range	-39.9 to 149.9 °C
Resolution	0.1 °C/°F
Accuracy	+/-0.5 °C (-39.9 to 124.9 °C)
Battery	3 volt CR2032 lithium coin cell
Battery life	5000 hours
Sensor type	Thermistor
Display	10 mm LCD
Dimensions	Ø29 x 196 mm (inc. probe)
Weight	45 grams
Certification	FREE traceable certificate of calibration included

## FlashCheck® Lollipop Min/Max Thermometer



- · Min/max memory
- °F/°C switchable
- IP65 waterproof and grease resistant
- · Reduced tip probe
- Auto-calibration

Item Code

• Complies with FDA Food Code 4-203

#### Feature Specification Measurement Range -40°F to 311°F (-40°C to 155°C) 32°F to 122°F (0°C to 50°C) Operating Range Sensor Thermistor 0.1°F /°C Display Resolution Display Reading Update 1 second Display Window Size 0.77 in W x 0.37 in H (19.5 mm W x 9.5 mm H) Calibration Factory calibrated to NIST traceable standards Battery Button Cell Alkaline **Body Casing** ABS plastic 4.13" L x 0.14" Dia, Reduced tip 0.1" Dia **Probe Dimensions** (105 mm L x 3.56 mm Dia, Reduced tip 2.5 mm Dia) Weight 1.25 oz. (35.4 gm) Waterproof Rating IP65 Certification CE, RoHS, NIST traceable, manufacturers certificate of compliance available

# FlashCheck® Jumbo Display Auto-Cal Needle Probe Thermometer



- °F/°C selectable
- · Automatic calibration feature
- Needle tip ideal for measuring temperature of thin mass foods such as meat patties, chicken and fish fillets, per FDA Food Code 4-302.12 (B)
- Small diameter probe provides less than 6 second response time
- · Highly visible dual scale jumbo LCD display
- · Sealed unibody construction
- IP56 waterproof, sanitizable, dirt and grease resistant
- · Automatic shut off saves battery

Item Code	SP-11063
Feature	Specification
Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	"+/-0.9°F from -4°F to 194°F (+/-0.5°C from -20°C to +90°C), +/-1.8°F from -40°F to 311°F (+/-1.0°C from -40°C to 155°C)"
Response Time	Less than 6 seconds between 32°F to 77°F (0°C to 25°C)
Sensor	Thermistor
Display Resolution	0.1°(F or C)
Display Reading Update	Every 2 seconds
Display Window Size	1.5 in W x 0.5 in H (38mm W x 12.7mm H)
Calibration	Automatic Calibration button
Battery	Button cell alkaline
Body Casing	ABS Plastic
Probe Length	3.9 in (99 mm)
Probe Diameter	0.14 in (3.56 mm), 14 gauge needle tip 0.067in (1.7mm)
Waterproof Rating	IP56
Factory Calibration	NIST traceable calibration
Compliance Certificate	Manufacturer's Certificate of Compliance, NIST traceable, CE, RoHS

# FlashCheck® Jumbo Display Reduced Tip Probe Thermometer



- °F/°C selectable
- Needle tip ideal for measuring temperature of thin mass foods such as meat patties, chicken and fish fillets, per FDA Food Code 4-302.12 (B)
- Small diameter probe provides less than 6 second response time
- Highly visible dual scale jumbo LCD display
- Sealed unibody construction
- IP56 waterproof, sanitizable, dirt and grease resistant
- · Automatic shut off saves battery

Item Code	SP-11066
Feature	Specification
Measurement Range	-40°F to 311°F (-40°C to 155°C)
Operating Range	32°F to 122°F (0°C to 50°C)
Accuracy	+/-1°F(14°F to 194°F), +/-0.5°C (-10°C to 90°C) or +/-1% whichever is greatest
Response Time	Less than 6 seconds between 32°F to 77°F (0°C to 25°C)
Sensor	Thermistor
Display Resolution	0.1° F / °C
Display Reading Update	Every 2 seconds
Display Window Size	1.5in W x 0.5in H (38mm W x 12.7mm H )
Calibration	Factory calibrated
Battery	Button cell alkaline
Body Casing	ABS Plastic
Probe Length	3.9in (99mm)
Probe Diameter	0.14in (3.56mm), reduced tip 0.1in (2.5mm)
Waterproof Rating	IP56
Factory Calibration	NIST traceable calibration
Certifications & Regulatory Com- pliance	Manufacturer's Certificate of Compli- ance, NIST traceable, CE, RoHS



# Testo® 105 One-Hand Thermometer With Frozen Goods **Measuring Tip**



- Designed for daily use: rugged, can be cleaned under running water (IP65 protected)
- Changeable measuring tip: standard tip for semi-solid media, i.e. meat / long 200 mm measuring tip for semi-solid media (optional) / measuring tip for frozen food
- Two adjustable thresholds, audible / visual alarm that are triggered when thresholds
- EN 13485 and HACCP compliant

Item Code	SP-Testo 105
Feature	Specification
Weight	204 g (incl. belt clip and batteries) 156 g (incl. batteries)
Dimensions	148 x 38 x 195 mm (with probe) 148 x 38 x 73 mm (without probe)
Operating temperature	-20 to +50 °C
Product-/housing material	ABS
Protection class	IP65
Product colour	white
Length probe shaft	100 mm
Length probe shaft tip	36 mm
Diameter probe shaft	5 mm
Diameter probe shaft tip	2.3 mm
Switch on/off	10 min
Measuring rate	0.5 s
Standards	EN 13485
Battery type	4 x Button cell LR44
Battery life	80 h (typical)
Display type	LCD (Liquid Crystal Display)
Display size	one-line
Storage temperature	-40 to +70 °C
Measuring range	-50 to +275 °C
Accuracy	+/-0.5 °C (-20 to +100 °C) +/-1.0 °C (-50 to -20.1 °C) +/-1 % of mv (+100.1 to +275 °C)
Resolution	0.1 °C
Reaction time	$t_{99}$ = 10 s (in frozen meat approx. 60 s)

#### **Testo® 925 Temperature Measuring Instrument**



 An attachable temperature probe and a radio temperature probe can be connected

Temperature, Time & Portion Control

- Large range of fast temperature probes on offer for surface, air or immersion/penetration measurement (optional)
- Continuous display of min./max. values
- · Acoustic alarm sounds when limit values are exceeded

Item Code	SP-Testo 925
Feature	Specification
Measuring range	-50 to +1000 °C
Accuracy	+/-(0.5 °C + 0.3 % of mv) (-40 to +900 °C) +/-(0.7 °C + 0.5 % of mv) (Remaining Range)
Resolution	0.1 °C (-50 to +199.9 °C) 1 °C (Remaining Range)
Dimensions	182 x 65 x 40 mm
Operating temperature	-20 to +50 °C
Housing	ABS
Number of channels	1-channel
Battery type	9V block battery, 6F22
Battery life	200 h (connected probe, backlight off); 45 h (radio mode, backlight off); 68 h (connected probe, backlight always on); 33 h (radio mode, backlight always on)
Storage temperature	-40 to +70 °C
Weight	171 g



#### **Catertemp® Metal Thermometer**



SP-221-800

SP-832-789

Feature

Accuracy Battery & life

Sensor type

Dimensions

Certification

Display

Weight

Range Resolution

- The thermometer for the harshest environments
- Supplied with heavy duty penetration probe
- · FREE traceable certificate of calibration
- Waterproof to IP67



CaterTemp Metal

Specification -49.9 °C to 299.9 °C

K thermocouple

37 x 61.4 x 177 mm

12 mm LCD

325 grams

0.1 °C



Stainless steel wall bracket

3 x AAA - 10,000 hours @ 25°C



+/-0.4 °C (-49.9 to 199.9 °C) or otherwise +/-1 °C

FREE traceable certificate of calibration included









#### **Food Check Thermometer & Probe**



• Ideal for HACCP procedures

Temperature, Time & Portion Control

- FREE traceable certificate of calibration
- Temperature range -49.9 to 299.9 °C
- Compact & robust design



AUTO OFF	НАССР	Biomaster	YEAR	BRI
white				
بينمالمين				

Item Code	Item
SP-221-018	Food Check - white
SP-221-028	Food Check - yellow
SP-221-038	Food Check - green
SP-221-048	Food Check - red
SP-221-058	Food Check - blue
SP-830-221	Protective silicone boot - white
SP-832-050	Protective silicone boot - white

Feature	Specification	
Range	-49.9 to 299.9 °C	
Resolution	0.1 °C	
Accuracy	+/-0.4 °C (-49.9 to 199.9 °C) otherwise +/-1 °C	
Battery & life	3 x 1.5 volt AAA - 10000 hours	
Sensor type	K thermocouple	
Display	12 mm LCD	
Dimensions	25 x 56 x 128 mm	
Weight	160 grams	
Certification	FREE traceable certificate of calibration include	



# **Digital Fridge Thermometer**

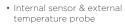


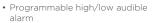
- Energy saving light sensor 5 years battery life
- Food safety zone indicator

UKAS



# **Fridge Or Freezer Thermometer**









# **Fridge Or Freezer Thermometer**



- Programmable high/low audible alarm
- Records the max/min temperatures





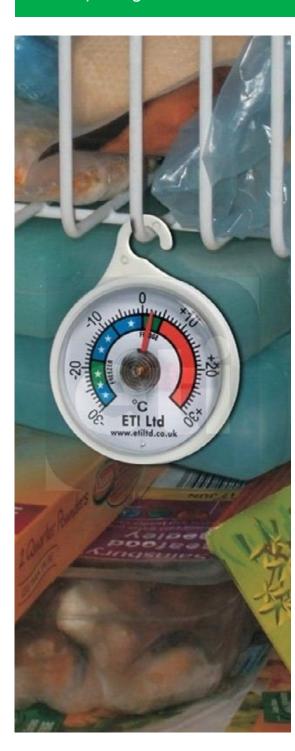
Item Code		SP-810-210
Feature	Specification	
Range	-49.9 to 69.9 °C	
Resolution	0.1 °C/°F	
Accuracy	+/-1 °C	
Battery & life	1.5 volt AAA - 5000 hours	
Display	Custom LCD	
Dimensions	15 x 52 x 73 mm	
Weight	55 grams	

Item Code		SP-810-251
Feature	Specification	
Range	-9.9 to 49.9 °C	
Resolution	0.1 °C	
Accuracy	+/-1 °C	
Battery	3 volt CR2032 lithium coin cell	
Battery life	10000 hours	
Display	Custom LCD	
Dimensions	26 x 45 x 73 mm	

40 grams

Weight

Item Code		SP-810-225
Feature	Specification	
Range	-24.9 to 69.9 °C	
Resolution	0.1 °C/°F	
Accuracy	+/-1 °C	
Battery	3 volt CR2032 lithium coin cell	
Battery life	3000 hours	
Display	Custom LCD	
Dimensions	16 x 50 x 82 mm	
Weight	50 grams	



## Fridge Or Freezer Thermometer with 52mm Dial



This easy to read fridge or freezer thermometer is circular and has a Ø52mm dial. This fridge/ freezer thermometer indicates temperature over the range of -30 to 30°C in 1°C divisions.

It incorporates colour-coded zones for ease of reading and is housed in an ABS case that incorporates a plastic hook to hang from a shelf.

Item Code	Item
SP-800-100	52mm dial thermometer
SP-800-101	52 mm dial - box of 20

#### Fridge Or Freezer Thermometer with 52mm Dial



This stainless steel, fridge or freezer thermometer has a Ø50mm dial with clearly marked scale and temperature zones, indicating temperature over a range of -30 to 30°C in 1°C divisions.

Temperature, Time & Portion Control

The colour-coded area incorporates traditional fridge star marks and indicates when the thermometer is at the correct temperature for a fridge or freezer. The housing measures 70 x 60mm and can be free-standing or hung from a shelf.

Item Code

# **Freezer-Refrigerator Thermometer**



Housing Material

- Durable, heavy-duty stainless steel
- Hang or stand
- · Large, easy-to-read face

#### **Refrigerator and Freezer Thermometer**



- · Stainless steel
- Readings in Fahrenheit or Celsius
- Easy to read

Item Code		SP-29004
Feature	Specification	
Temperature Range	-20°F to 80°F / -30°C to 30°C	
Temperature Accuracy	+/-2°F (+/-1°C)	
Dimensions	2 inch/5 cm diameter	

Stainless steel construction

Item Code

Feature	Specification
Temperature Range	-40°F to 80°F / -40°C to 27°C
Temperature Accuracy	+/-2°F (+/-1°C)
Dimensions	120 mm x 30 mm
Housing Material	Polycarbonate (non-mercuric column)



#### **Oven Thermometer**



- Stainless steel and Template glass
- Readings in Fahrenheit or Celsius
- Heat-resistant to 600°F (315°C) degrees

#### **Grill Surface Thermometer**



- Durable, heavy duty stainless steel
- Easy-to-read dial face
- Tabs for lifting up

Temperature, Time & Portion Control

Item Code	SP-29005
Feature	Specification
Temperature Range	200°F to 600°F (93°C to 316°C)
Temperature Accuracy	+/-25°F (+/-12.5°C) at 25% and 75% of the temperature scale 93.3°C to 315.6°C
Dimensions	2 inch/5 cm diameter
Housing Material	Stainless steel construction

Item Code	SP-29005
Feature	Specification
Temperature Range	200°F to 600°F (93°C to 316°C)
Temperature Accuracy	+/-25°F (+/-12.5°C) at 25% and 75% of the temperature scale 93.3°C to 315.6°C
Dimensions	2 inch/5 cm diameter
Housing Material	Stainless steel construction

# **Frying Thermometer in Stainless Steel 50mm Dial**



- Indicates temperature over the range of 0 to 300°C
- Marked for meat, poultry and fish and chips
- · Simple to use

Item Code		)
Feature	Specification	
Measurement Range	100°F to 500°F( 38°C to 260°C)	
Accuracy	+/-10°F (+/-5.5°C)	
Temperature Unit	°F /°C Dual Scale	
Dimensions	56.7mm (D)x 20mm(H) (2.23" x 0.79")	
Housing Material	Stainless steel	

## **Oven Thermometer in Stainless Steel 50mm Dial**



- Indicates temperature over the range of 0 to 300°C
- · Marked for meat, poultry and fish and chips
- Simple to use

Item Code	SP-800-805
-----------	------------

Feature	Specification
Range	0 to 300°C
Resolution	10 °C
Display	analogue dial
Case Material	Stainless steel
Measurement Scale	Celsius

# Item Code

Feature	Specification
Range	0 to 300°C
Resolution	10 °C
Display	analogue dial
Case Material	Stainless steel
Measurement Scale	Celsius



#### **Automated Cooking/Cool Down Thermometer**



- Fully automated time/temperature monitoring for food cool down
- Programmable time/temperature settings,
- Confirms less than 6 hour total cool down time for food safety and compliance with FDA Food Code 3-501.14 (A,B)
- Audible alarm if food exceeds time in temperature danger zone
- New "Auto-Calibration" feature
- · Uses ice bath reference solution
- Count down or count up timer for cooking and cooling
- · Audible alarms for PASS/FAIL notification and unattended operation
- · Easy to clean heat resistant Teflon® wire and waterproof probe
- HACCP Compliant tool
- Includes removable mounting cradle

# FlashCheck® Min-Max Alarm Digital Thermometer



- Measuring range from -58°F to 158°F (-50°C to 70°C)
- Highly accurate up to +/- 1°F (+/-0.5°C)
- High/low alarm settings

Temperature, Time & Portion Control

- Minimum/Maximum memory stores lowest/highest readings
- Stereo jack gold plated connector reduces faulty readings
- Jumbo LCD
- Switchable °F/°C scale
- Blunt probe sensor with 10 foot (3 meter) strain resistant cable
- · Strong magnetic attachment and foldaway stand
- Retains settings during battery swap
- Configurable delay alarms with audible buzzer and/or flashing light
- More than 1 year of continuous monitoring

Item Code	SP-26003
Feature	Specification
Measurement Range	32°F to 338°F (0°C to 170°C)
Operating Range (base unit)	-22°F to 122°F (-30°C to 50°C)
Accuracy	0°F to 275°F +/- 1.8°F (0°C to 135°C +/-1.0°C); 275°F to 302°F +/- 2.7°F (135° to 150°C +/- 1.5°C)
Probe	6.5" (17cm) stainless steel, reduced tip. Detachable
Probe Wire	30" (76cm) heat-resistant Teflon
Timer	Up to 23 hr 59 min. in count up or down modes
Body	ABS plastic
Unit Weight	3.8oz (107.7g)
Resolution	0.1°(F or C)
Battery	Two 1.5V button, battery life 18 months
Certification	CE, factory calibrated to NIST standards, RoHS compliant

item code	3F-12217
Feature	Specification
Measurement Range	-58°F to 158°F (-50°C to 70°C)
Operating Range	14°F to 122°F (-10°C to 50°C)
Accuracy	+/-1.0°F (-22°F to 131°F) +/-0.5°C (-30°C to 55°C); otherwise +/-1.8°F (+/-1.0°C)
Display Resolution	0.1°F/°C
Display Reading Update	17 seconds
Display Size	1.92in W x 2.08in L (49mm W x 53mm L)
Instrument Size	2.99in W x 3.74in L x 0.74in D (76mm W x 95mm L x 19mm D)
Body Casing	ABS polymer, resistant to chemicals and high impact
Sensor	Thermistor
External Probe Type/ Size	Stainless Steel, 0.7in L x 0.2in Dia (17.8mm L x 5mm Dia)
Sensor cable	9.84ft x 0.08in Dia (3 meters x 2mm Dia)
Battery	AA Battery, user replaceable
Certification / Calibration	CE mark, NIST traceable, RoHS, WEEE



#### **Dishtemp® Dishwasher Thermometer**



- Displays maximum temperature reached
- · Simulates plate surface temperature
- Waterproof to IP66
- Traceable certificate of calibration (@ 71°C - one point only)





- · Auto-calibration
- NSF Certified
- °C/°F selectable

Temperature, Time & Portion Control

- Min/Max memory
- IP65 waterproof/plastic protective heat shield with velcro strap
- Use to comply with FDA Food Code 4-703.11 (B)

Dish Temp® Price Simulating Dishwasher Tester			
m Code	SP-810-280		
ature	Specification		
nge	0 to 90 °C		
solution	0.1 °C/°F		
	. / 0 = 00		

Feature	Specification
Range	0 to 90 °C
Resolution	0.1 °C/°F
Accuracy	+/-0.5 °C
Battery	3 volt CR2032 lithium coin cell
Battery life	5000 hours
Display	Custom LCD
Dimensions	14 x Ø127 mm
Weight	120 grams
Certification	FREE traceable certificate of calibration

# **Thermax TDI Dishwasher Test Strips**

Item Code	SP-Thermax TDI
-----------	----------------

Thermal Disinfection Indicators (TDI) are adhesive labels that are used to identify if the surface of objects that have been cleaned in a dishwasher have reached a temperature high enough that they are sanitised.

These labels have three temperature activation points set at: 65°C, 71°C, 82°C. The required temperature depends on the duration of the washing cycle. A short cycle will require the 82°C indicator to activate and with a long cycle the 65°C indicator will suffice. However please check with your state health department and your local council environmental heath officer for the recommended guidelines.

Demonstrate due diligence as part of HACCP procedures and environmental health obligations.

- Dual scale °C and °F
- Temperature Indication Range: 65°C, 71°C and 82°C
- Size: 25mm x 35mm
- · Adhesive backed
- · Water resistant
- · Colour change from white to black



	Item Code	
	Feature	Specification
	Temperature Range	-40°F to 311°F (-40°C to 155°C)
	Accuracy	+/-1°C (+/-1.8°F) from -31°F to 212°F (-35°C to 100°C); +/-1.5°C (+/-2.7°F) from 212°F to 266°F (100°C to 130°C); +/-2.0°C (+/-3.6°F) from 266°F to 311°F (130°C to 155°C)
	Sensor	Thermistor
	Temperature Resolution	0.1°F (0.1°C)
	Display Reading Update	1 second
	Display Window Size	0.77 in W x 0.37 in H (19.5 mm W x 9.5 mm H)
	Calibration	Auto calibration feature
	Battery	Button Cell Alkaline
	Body Casing	Polycarbonate and ABS plastic
	Probe Dimensions	Stainless steel, 0.14 in. (Dia.) x 4.13 in. (L) (3.56 mm x 105 mm)
	Weight	1.3 oz (37.6g)
	Waterproof Rating	IP65
	Certification	CE Mark

#### **Reference Thermometers**



Item Code Feature

Range

Resolution

Accuracy

Battery & life

Sensor type

Display Dimensions

Weight

- +/-0.03 °C/°F high system accuracy
- 5-point UKAS Calibration Certificate included
- Supplied complete with high accuracy probe
- Ideal for calibration comparison checks
- Meets the European Standard EN 13485

Specification

0.01 °C

-199.99 to 199.99 °C

PT100 1/10th DIN 10 mm LCD

25 x 56 x 128 mm 210 grams

+/-0.03 °C (-49.99 to 149.99 °C)

+/-0.1 °C (-150 to 200 °C)

3 x 1.5 volt AAA - 2000 hours

#### **Reference Thermapen® Thermometer**



Weight

- 5-point ukas certificate included
- Ideal for calibration comparison checks
- One-handed operation
- 2 year guarantee
- Meets the european standard en 13485

# Testo® 108-2 Temperature Measuring Instrument With Lockable Probe



- Easy to operate and use: lockable probe for a secure hold
- Temperature measuring instrument with connected probe is waterproof (IP 67)
- Includes softcase and probe type T
- HACCP-compliant and certified to EN 13485













item Code	SP-222-213	
Feature	Specification	
Range	-69.99 to 199.99 °C	
Resolution	0.01 °C	
Accuracy	+/-0.05 °C (-30 to 149.99 °C) otherwise +/-0.2 °C	
Battery	2 x 3 volt CR2032 lithium coin cell	
Battery life	1000 hours	
Sensor type	PT100	
Display	PT100	
Dimensions	19 x 47 x 153 mm	

97 grams

item code	31 163(0100 2
Feature	Specification
Measuring range	-50 to +300 °C
Accuracy	+/-0.5 °C (-30 to +70 °C) +/-0.5 °C +/-0.5 % of mv (-50 to -30 °C) +/-0.5 °C +/-0.5 % of mv (+70 to +300 °C)
Resolution	0.1 °C
Reaction time	10 s (Measured in moving liquid)
Weight	210 g (incl.battery and Softcase) 154 g (incl. battery, without softcase)
Dimensions	140 x 60 x 24 mm
Operating temperature	-20 to +60 °C
Product-/housing material	TPE/PC + ABS/PC + ABS + 10% GF
Protection class	IP67 with TopSafe
Product colour	white
Futher features	Auto-hold, hold and min./max. function
Measuring rate	0.5 s
Standards	EN 13485
EU-/EG-guidelines	2004/108/EG
Battery type	3 AAA micro batteries
Battery life	2500 h (typical, at 23 °C)
Display type	LCD (Liquid Crystal Display)
Display size	one-line
Display function	with status line
Storage temperature	-30 to +70 °C

# www.specificoco.com

## **Vacuum Bag Sealer**



- Ideal for sealing dry & moist foods
- Incorporates easy to use bag cutter
- Lightweight and easy to use
- Supplied with UK type plug lead

Item Code	SP-822-700

This lightweight Vacuum Bag Sealer is both compact and easy to use and ideal for both sous vide cooking and food storage.

The bag sealer features easy to use buttons allowing the user to set multiple functions, enabling the user to seal most dry and moist foods.

The vacuum bag sealer incorporates a pulse feature for soft and delicate foods.

# Thermapen® Sous Vide Thermometer with miniature needle probe



Item Code

- Meets the European Standard EN 13485
- Ø1.1 mm tip is ideal for delicate foods
- Reaches temperature in just 3 seconds!
- 2 year guarantee









	er eer en
Feature	Specification
Range	-49.9 to 299.9°C
Resolution	0.1 °C or 1°C - user selectable
Accuracy	+/-0.4°C (-49.9 to 199.9 °C) otherwise +/-1 °C
Battery	2 x 3 volt CR2032 lithium coin cell
Battery Life	1500 hours
Sensor Type	K thermocouple
Display	14.5mm LCD
Dimensions	19 x 47 x 153mm
Weight	97 grams

#### **Water Bath for Sous Vide**



Item Code

Feature

Resolution

Accuracy Capacity

Power Source

Dimensions

Weight

Range

- Easy to use, LED touch screen controls
- Delivers consistent & repeatable results
- Temperature range between 30 and 90 °C
- Cooking time between 0 and 99 hours
- 8 litre capacity

external: 220 x 250 x 380 mm - internal: 140 x 220

· Supplied with UK type plug lead

# Vacuum Bags



- Keeps food fresher longer
- Prevents freezer burn
- · Perfect for sous vide

Item Code	Item
SP-822-801	Vacuum Bags 22 x 30 cm - pack of 50
SP-822-802	Vacuum Bags 28 x 40 cm - pack of 50
SP-822-803	Vacuum Rolls 22 cm x 5 m - pack of 2
SP-822-804	Vacuum Rolls 28 cm x 5 m - pack of 2

Perfect for sous vide cooking these vacuum sealer bags and rolls are ideal for the ETI Vacuum Bag Sealer and will also keep your food fresher longer and prevent freezer burn.

Each vacuum bag pack contains 50 bags and the vacuum roll packs contain 2 rolls.

## **Anti-Evaporation Balls for Sous Vide Water Bath**

**Specification** 

230 volt (800W)

30 to 90 °C

0.1 °C/°F

+/-0.5°C

x 280 mm

4000 grams

8 litres



- Reduces water evaporation in sous vide cooking
- Supplied in pack of 250
- 20mm diameter



Anti-Evaporation Balls for Sous Vide Water Bath. By covering the surface of your water bath with these polypropylene balls, a significant reduction in water evaporation can be achieved.

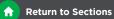
Each pack contains 250 balls of 20 mm diameter.

#### **Accessories**





Item Code	Item
SP-600-470	Sous Vide foam/tape - one metre
SP-830-001	Zip pouch with belt strap



# **Jumbo Display Wall Mount Thermo-Hygrometer**



- Internal temperature and humidity sensors
- External temperature probe
- Probe holder with self-adhesive backing
- °C/°F selectable
- Jumbo display temperature, humidity, time and date
- Min/Max memory lowest and highest readings stored for instant recall
- Alarm clock and hourly chime

# **Therma-Hygrometer - Comfort**



- Displays both humidity & temperature
- Max min memory function
- Coloured zone indicators
- Wall or stand mounting
- Can save money on heating bills
- Simple to use, easy to read
- Helps prevent hypothermia





- Continuous measurement and display of temperature and relative humidity
- Calculation and display of the dew point
- Large, clear display
- Durable quality: capacitive humidity sensor with long-term stability for many years of measurement

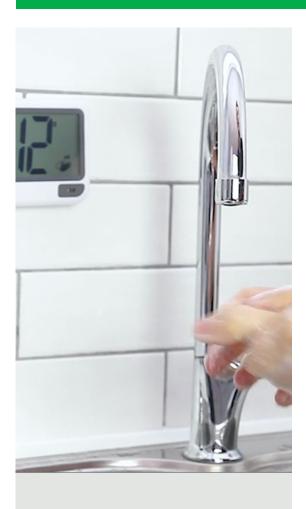


Item Code	SP-13309
Feature	Specification
Temperature Range	Internal: 14°F to 122°F (-10°C to 50°C) External Probe: -58°F to 158°F (-50°C to 70°C)
Humidity Range	Internal: 10% to 99%
Operating Range	14°F to 122°F (-10°C to 50°C)
Humidity Accuracy (Internal)	+/-5% R.H. from 40% to 70% R.H. at 77°F~86°F (25°C~30°C)
Temperature Accuracy (Internal & External)	+/-1.8°F (1°C) from 32°F to 104°F (0°C to 40°C)
External Temperature Sensor	Cable length: 6.56 ft / 2 meters; Probe: 20mm L x 4mm Diameter
Resolution	R.H.1%, temperature 0.1°F /°C
Display Window Size	3.15in. W x 2.36in. H (80mm W x 60mm H)
Character Height within Display	1.02in (26mm) - Temperature & Humidity 0.87in (22mm) - Date & Time
Product Size	3.74in. W x 4.02in. H x 0.75 in. D (95mm W x 102mm H x 19mm D)
Weight	4.18 oz. (118.4 g)
Body Casing	Polycarbonate and ABS plastic
Sensor Type	Temperature: thermistor Humidity: electronic resistive
Battery	AAA (quantity 1 each)

Item Code	Item
SP-810-130	Therma-hygrometer
SP-810-135	Comfort thermometer

Feature	Specification
Range - Temperature	0 to 50 °C
Range - Humidity	10 to 99%rh
Resolution - Tempera- ture	0.1°C/°F
Resolution - Humidity	1%rh
Accuracy - Temperature	+/-1°C
Accuracy - Humidity	+/-5%rh 30%rH - 70%rH @25°C
Battery	2 x 1.5 volt AAA
Battery Life	10000 hours
Display	dual custom LCD
Dimensions	20 x 100 x 110mm
Weight	142 grams
Case Material	ABS plastic
Guarantee	one year
Measurement Scale	Celsius/Fahrenheit & %rh

	Item Code		SP-Testo 608-H1	
	Feature	Specification		
	Temperature Measuring range	0 to +50 °C -20 to +50 °Ctd		
	Temperature Accuracy	+/-0.5 °C (at +25 °C)		
	Temperature Resolution	0.1 °C		
	Humidity Measuring range	10 to 95 %RH		
	Humidity Accuracy	+/-3 %RH (10 to 95 %RH)		
	Humidity Resolution	0.1 %RH		
	Weight	168 g		
	Dimensions	111 x 90 x 40 mm		
	Operating temperature	0 to +50 °C		
	Measuring rate	18 s		
	Product-/housing material	ABS		
	Battery type	9V block battery, 6F22		
	Battery life	approx. 1 year		
	Display type	LCD (Liquid Crystal Display)		
	Display size	2 lines		
	Storage temperature	-40 to +70 °C		



#### **Kitchen Oven Timer minutes/seconds**



Item Code

minutes and 59 seconds.

- · Easily programmable
- 70 Decibel audible alarm
- Pocket clip/foot stand





- Fully programmable
- Loud 80 dB alarm
- Displays time since alarm sounded

Item Code SP-806-301

Three Channel Timer, new for 2020, this countdown/up timer with clock and 80dB loud audible alarm, is fully programmable allowing the user to preset and view up to three different alarm times simultaneously.

When you set a countdown time, the start/stop button starts the timer. When the alarm sounds, a count up starts so you know how long since the alarm sounded. Pause and continue any timer at any time.

The unit is powered by 2 x AAA batteries and is designed to sit on a worktop or be attached to an appliance via the magnetic pads to the rear of the instrument.

# Timewash® Digital Hand Wash Timer



Item Code

Weight

Case material

- Encourages proper hand-washing procedures
- Easily activated by a wave of the hand
- · Large, easy-read LCD display
- Eight pre-set countdown times

noper nand-was	FlashCheck®	Count-Up/	Count-Down	Timer
----------------	-------------	-----------	------------	-------



Item Code

- · Large digital display
- Fold-out stand for placement on flat surfaces
- · Clip to apron, pocket or shirt
- Mount with magnet or hanging loop
- Loud buzzer when count-down time elapses
- Memory retains same start time after count down

Feature	Specification
Range	(pre-set): 20, 30 and 40 seconds, 1, 2, 3, 4 and 10 minutes
Resolution	Seconds & Minutes
Accuracy	1% FS
Battery	2 x 1.5 volt AAA
Battery life	3 months
Display	custom LCD
Dimensions	20 x 91 x 101 mm

130 grams

ABS plastic

This countdown/up timer incorporates a louder than average 70 decibel audible

alarm. The timer is fully programmable, allowing the user to set the time up to 99

The unit is powered by one AAA battery and is designed to sit on a worktop or be attached to an appliance via the magnetic pad at the rear of the instrument.

# Feature Specification Maximum Range Count-Up/ Count-Down 99 Minutes: 59 Seconds Dimensions 2.76in H x 3.27in W (70mm H x 83mm W) 1.1in D (28mm D) including clip Display Window 1.5in H x 2.48in W (38mm H x 63mm W) Digital size 1.34in H x 0.59in W (34mm H x 15mm W) Battery One 1.5v AAA Alkaline (Not included)



Saveris 2: Basic Overview

#### Testo® Saveris 2

# temperature, humidity and CO, monitoring re-thought

Data transfer by wireless LAN

All measurement data always available, anywhere, on any instrument

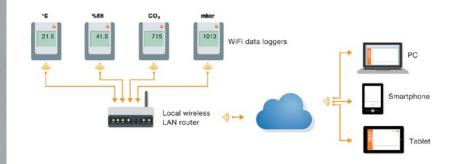
Alarms when limit values are violated

Cost-free online data store (Testo Cloud)

The testo Saveris 2 WiFi data logger system is the modern solution for monitoring temperature and humidity values as well as CO2 concentration in storerooms and work rooms. Installing the system is child's play and can be carried out via the browser. The WiFi data loggers reliably record temperature, humidity and CO2 concentration at adjustable intervals and transmit the measurement values directly by wireless LAN to the Testo Cloud.

The readings stored can be analyzed at any time, anywhere, using an internet-enabled smartphone, tablet or PC. Limit value violations are immediately reported via e-mail, or optionally via SMS. This allows critical processes to be kept always under control, even if you are not on site. The long battery life additionally ensures that the testo Saveris 2 system needs to be serviced only rarely.

# The data logger system testo Saveris 2 allows you full and easy







64









#### Thermadata® WiFi TD1F Two Channel Thermistor Logger



- Email alerts when alarm limits exceeded
- Access temperature data worldwide via internet
- Programmable high/low alarm
- User friendly, simple setup
- Free traceable calibration certificate



## Thermadata® WiFi TD2F Two Channel Thermistor Logger



- Email alerts when alarm limits exceeded
- · Access temperature data worldwide via internet
- Programmable high/low alarm
- · User friendly, simple setup
- Free traceable calibration certificate





- Simultaneously displays humidity & temperature
- · Records up to a maximum of 18000 readings
- LED display of high & low alarm status
- No ongoing or subscription charges
- · UKAS certificates available



























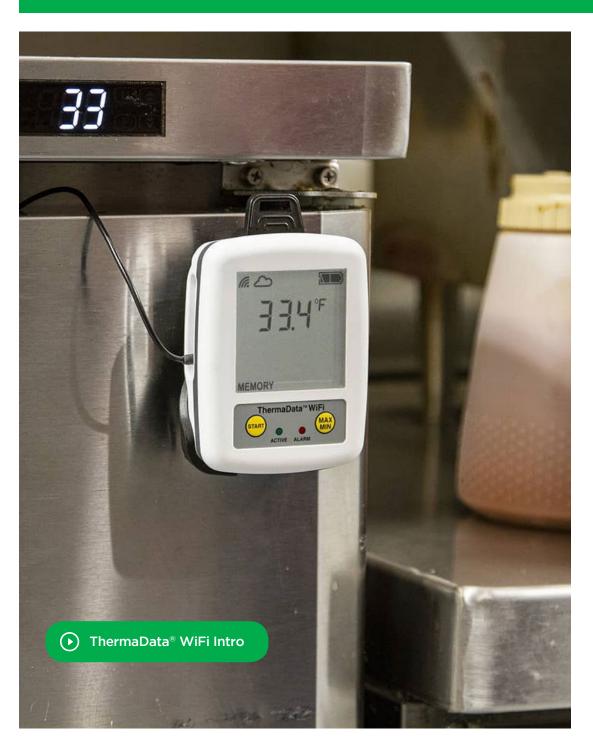


Item Code		SP-298-011
Feature	Specification	
Range internal	0 to 50 °C	
Range external	-40 to 125°C	

Feature	Specification
Range internal	0 to 50 °C
Range external	-40 to 125°C
Resolution	0.1 °C/°F
Accuracy	+/-0.5°C
Memory	18000 or 2 x 9000 readings
Sample rate	6 seconds to 330 minutes
Battery	2 x 1.5 volt AA
Battery life	approximately 12 months
Display	12 mm LCD/2 LED's
Dimensions	29 x 72.5 x 96mm
Weight	165 grams
Case material	ABS plastic
Country of manufacture	United Kingdom
Guarantee:	two years

item code 51 250	
Feature	Specification
Range external	-40 to 125°C
Resolution	0.1 °C/°F
Accuracy	+/-0.5°C
Memory	18000 or 2 x 9000 readings
Sample rate	6 seconds to 330 minutes
Battery	2 x 1.5 volt AA
Battery life	approximately 12 months
Display	12 mm LCD/2 LED's
Dimensions	29 x 72.5 x 96mm
Weight	165 grams
Case material	ABS plastic
Country of manufacture	United Kingdom
Guarantee	two years
Measurement scale	Celsius/Fahrenheit

Item Code	SP-298-621
Feature	Specification
Range - temperature	0 to 50 °C
Range - humidity	0 to 100 %rh
Resolution - humidity	0.1 %rh
Accuracy - temperature	+/-0.5 °C (0 to 50 °C)
Accuracy - humidity	+/-2 %rh @ 25 °C (20 to 80 %rh) +/-3 %rh @ 25 °C (10 to 90 %rh) +/-4 %rh @ 25 °C (0 to 100 %rh)
Hysteresis - humidity	+/-1 %rh
Memory	2 x 9000 readings
Sample rate	6 seconds to 330 minutes
Battery	2 x 1.5 volt AA
Battery life	approx. 10 months @ 20 °C
Sensor type	Temperature: Thermistor Humidity: Capacitance polymer
Display	12 mm LCD/2 LED's
Dimensions	29 x 72.5 x 96 mm



# ThermaData® WIFI loggers for temperature

Email alerts user when alarm limits are exceeded

Access temperature data worldwide via internet

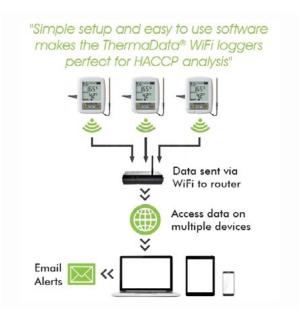
NO ongoing or subscription charges

Programmable high/low alarm

The ThermaData WiFi loggers utilise the latest WiFi wireless technology. The loggers are a battery powered, cost-effective, temperature monitoring system that remotely records the temperature of appliances and buildings. Each logger transmits the recorded data to a WiFi router connected to the internet which can be accessed and viewed from a PC, laptop or tablet anywhere in the world.

The loggers have a range limited to the specification of the users WiFi router. Each logger has an intuitive LCD displaying; temperature, WiFi and internet connection status, max/min recorded temperatures, alarm status and battery life.

# How does the ThermaData® WiFi logger



# Testo® Saveris 2-H1 WiFi Data Logger With Display and Integrated Temperature and Humidity Probe



- Automated temperature and humidity monitoring with integrated probe
- WiFI data logger system with easy installation and operation
- Call up measurement data at any time via Smartphone, tablet or PC
- Limit value violation alarms by e-mail or (optionally) SMS

# Testo® Saveris 2-T1 WiFi Data Logger With Display and Integrated Ntc Temperature Probe



- Automated temperature monitoring with integrated probe
- WiFl data logger system with easy installation and operation
- Call up temperature data at any time via Smartphone, tablet or PC
- Limit value violation alarms by e-mail or (optionally) SMS

# Testo® Saveris 2-T2 WiFi data Logger With Display and 2 Connections For NTC Temperature Probes



Item Code

- Automated door contact and temperature monitoring with connectable probes (optional).
- WiFI data logger system with easy installation and operation
- Call up measurement data at any time via Smartphone, tablet or PC
- Limit value violation alarms by e-mail or (optionally) SMS

Item Code	SP-Testo Saveris 2-H1
Feature	Specification
Temperature Measuring range	-30 to +50 °C
Temperature Accuracy	+/-0.5 °C
Temperature Resolution	0.1 °C
Humidity Measuring range	0 to 100 %RH
Humidity Accuracy	+/-2 %RH
Humidity Resolution	0.1 %RH
Weight	250 g
Dimensions	115 x 82 x 31 mm
Operating temperature	-30 to +50 °C
Protection class	IP30
Measuring rate	Dependent on Cloud licence; Basic: 15 min 24 h / Advanced: 1 min 24 h
Communication rate	Dependent on Cloud licence; Basic: 15 min 24 h / Advanced: 1 min 24 h
WLAN Connectivity	Signal transmission: wireless, frequency band: 2.4 GHz, supported wireless LAN standards: IEEE 802.11 b/g/n and IEEE 802.1X; Possible encryption methods: without encryption, WEP, WPA, WPA2, WPA2 Enterprise - The data loggers communicate via the standard protocol MQTT and are SNTP time synchronization-capable.
Power supply	4 x AA AIMn batteries
Memory	10,000 measurement values / channel
Battery life	12 months (typical value, depending on the wireless LAN infrastructure)
Storage temperature	-40 to +70 °C (without batteries)

Feature	Specification
Measuring range	-30 to +50 °C
Accuracy	+/-0.5 °C
Resolution	0.1 °C
Weight	240 g
Dimensions	95 x 75 x 30.5 mm
Operating temperature	-30 to +50 °C
Protection class	IP65
Measuring rate	Dependent on Cloud licence; Basic: 15 min 24 h / Advanced: 1 min 24 h
Communication rate	Dependent on Cloud licence; Basic: 15 min 24 h / Advanced: 1 min 24 h
WLAN Connectivity	Signal transmission: wireless, frequency band: 2.4 GHz, supported wireless LAN standards: IEEI 802.11 b/g/n and IEEE 802.1X; Possible encryption methods: without encryption, WEP, WPA, WPA2 Enterprise - The data loggers communicate via the standard protocol MQTT and are SNTP time synchronization-capable.
Standards	EN 12830
Power supply	4 x AA AlMn batteries; mains unit optional; for temperatures below -10 °C please use Energizer batteries 0515 0572
Memory	10,000 measurement values / channel
Battery life	12 months (typical value, depending on the wireless LAN infrastructure)
Storage temperature	-40 to +70 °C (without batteries)

Feature	Specification
Measuring range	-50 to +150 °C
Accuracy	+/-0.3 °C
Resolution	0.1 °C
Weight	240 g
Dimensions	95 x 75 x 30.5 mm
Operating temperature	-30 to +50 °C
Protection class	IP65
Measuring rate	Dependent on Cloud licence; Basic: 15 min 24 h / Advanced: 1 min 24 h
Door contact	yes
Communication rate	Dependent on Cloud licence; Basic: 15 min 24 h / Advanced: 1 min 24 h
WLAN Connectivity	Signal transmission: wireless, frequency band: 2.4 GHz, supported wireless LAN standards: IEEE 802.11 b/g/n and IEEE 802.1X; Possible encryption methods: without encryption, WEP, WPA, WPA2, WPA2 Enterprise - The data loggers communicate via the standard protocol MQTT and are SNTP time synchronization-capable.
Standards	DIN EN 12830
Connection external	External temperature probes
Power supply	4 x AA AlMn batteries; mains unit optional; for temperatures below -10 °C please use Energizer batteries 0515 0572
Memory	10,000 measurement values / channel
Battery life	12 months (typical value, depending on the wireless LAN infrastructure)
Storage temperature	-40 to +70 °C (without batteries)

Item Code Feature

Accuracy

Resolution

Dimensions

Operating temperature

Product-/housing

Protection class

Product colour

Measuring rate

Storage temperature

Battery type Battery life

Interface

Memory

Weight

material

Channels

Standards

Measuring range

#### Testo® 175 T2 Temperature Data Logger

Specification

89 x 53 x 27 mm

1 internal; 1 external

-35 to +55 °C

0.1 °C

160 g

Plastic

**IP65** 

white

12830

10 s - 24 h

-35 to +55 °C

-35 to +55 °C internal -40 to +120 °C external

internal: +/-0.5 °C (-35 to +55 °C) +/-1 Digit

external: +/-0.3 °C (-40 to +120 °C) +/-1 Digit

EU-guideline 2014/30/EU; 2011/65/EU; DIN EN

3 x AlMn type AAA or Energizer

1,000,000 measuring values

mini usb, SD card slot

3 years (15 min. meas. rate, +25 °C)



- Ideal for long-term measurements: 1 million readings can be stored, battery life of up to 3 years
- · Including wall bracket
- HACCP-compliant, EN 12830 certified, protection class IP 65
- Data analysis: three different software versions available, basic software free of charge

# FlashLink® USB PDF Reusable Data Logger



- Single channel, internal sensor
- · 32K data points, non-volatile memory
- Automatically generates PDF & CSV files
- · Ideal for monitoring ambient temperature
- User programmable: manual or auto start, logging intervals, high/low alarms
- Large easy-to-read LCD

FlashLink Program Manager software

Direct USB connection to PC

- Multi-language FlashLink Program Manager software
- Summary analysis of data, with alarm information
- Degree Minutes and MKT calculations

Item Code	SP-40510
Feature	Specification
Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/C
Accuracy	+/-1.0°F from 14°F to 77°F (+/-0.5°C from -10°C to 25°C) +/-2.0°F above 77°F (+/-1.0°C above 25°C) +/-2.0°F below 14°F (+/-1.0°C below -10°C)
Data Capacity	32,496 points
Data Download Time	5 seconds typical for 3823 points
Factory Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Two AAA Lithium batteries, LCD % remaining power indicator
Dimensions/Body	1.57" x 3.66" x 0.94" (40mm x 93mm x 24mm)
Casing	ABS plastic
Weight	1.9 oz. (54.3 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, ROHS Compliant
AA Compliance	RTCA/DO-160
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 (with silicon cap on)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe reader

Programming

**Download Requirements** 

# FlashLink® USB PDF Reusable Data Logger with External Sharp Tip Probe



- · Single channel, external sharp probe
- Automatically generates PDF & CSV files
- Ideal for monitoring internal temperature of products
- User programmable: manual or auto start, logging intervals, high/low alarms
- Large easy-to-read LCD
- Summary analysis of data, with alarm information
- Degree Minutes and MKT calculations
- Low battery indicator on LCD

Item Code	SP-40515
Feature	Specification
Probe Measurement Range	-40°F to 185°F (-40°C to 85°C)
Operating Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/C
Accuracy	+/-1.0°F from 14°F to 77°F (+/-0.5°C from -10°C to 25°C) +/-2.0°F above 77°F (+/-1.0°C above 25°C) +/-2.0°F below 14°F (+/-1.0°C below -10°C)
Data Capacity	32,496 points
Data Download Time	5 seconds typical for 3823 points
Factory Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Two AAA Lithium batteries, LCD % remaining power indicator
Dimensions/Body	1.57" x 3.66" x 0.94" (40mm x 93mm x 24mm)
Casing	ABS plastic
Probe Size	0.14in Dia x 3.98in (3.5mm Dia x 101mm), 6.56 ft. (2m) teflon cable
Weight	2.56 oz. (72.57 grams)
Certification	CE Mark, NIST traceable, ROHS Compliant
FAA Compliance	RTCA/DO-160
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 (with silicon cap on)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH
System Requirements	Windows PC with current operating system, Adobe reader
Programming	FlashLink Program Manager software
Download Requirements	Direct USB connection to PC

# www.specificoco.com

#### Testo® 174H Temperature and Humidity Mini Data Logger



Item Code

- Memory for up to 16 000 temperature and humidity measurements
- Longlife humidity sensor for reliable and accurate measurements
- Easy data transfer via USB cable, practical data analysis and logging on PC

#### Testo® 174T Set Mini Data Logger



- Measurement data memory for 16 000 temperature readings, approx. 500 days of battery life
- Advantage of the set: comes with USB interface for data transfer to the PC
- Waterproof according to IP 65, HACCP-compliant and certified according to EN 12830
- Data analysis: three different software versions available, basic software free to download

# Testo® 184 T4 Temperature Data Logger For Transport Monitoring



- Unlimited operating time
- Application up to -80 °C for transport with dry ice
- All in one temperature data logger: PDF measurement data, configuration file, acceptance test certificate 3.1 according to DIN ISO 10204 and instruction manual
- Transport monitoring with documentation: Immediate creation of a PDF report directly after connection to a computer

o 174H	Item	Code

SP-Testo

Feature	Specification
Temperature Measuring range	-20 to +70 °C
Temperature Accuracy	+/-0.5 °C (-20 to +70 °C)
Temperature Resolution	0.1 °C
Humidity Measuring range	0 to 100 %RH*
Humidity Accuracy	+/-3 %RH (2 to +98 %RH) at +25 °C +/-0.03 %RH/K +/-1 Digit
Humidity Resolution	0.1 %RH
Weight	34 g
Dimensions	60 x 38 x 18.5 mm
Operating temperature	-20 to +70 °C
Product-/housing material	Plastic
Protection class	IP20
Channels	2 internal
Product colour	Black
Standards	2011/65/EU; EU-guideline 2014/30/EU
Measuring rate	1 min - 24 h
Battery type	2 x 3V button cell (CR 2032)
Battery life	1 year (15 min measuring cycle, +25 °C)
Memory	16,000 measuring values
Storage temperature	-40 to +70 °C

Feature	Specification
Measuring range	-30 to +70 °C
Accuracy	+/-0.5 °C (-30 to +70 °C)
Resolution	0.1 °C
Weight	35 g
Dimensions	60 x 38 x 18.5 mm ((LxWxH))
Operating temperature	-30 to +70 °C
Product-/housing material	Plastic
Protection class	IP65
Channels	1 internal
Product colour	white
Standards	EU-guideline 2014/30/EU; 2011/65/EU
Measuring rate	1 min - 24 h
Measuring rate	2 x 3V button cell (CR 2032)
Battery type	500 days (15 min measuring cycle, +25 °C)
Battery life	16,000 measuring values
Storage temperature	-40 to +70 °C

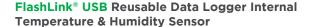
#### Feature Specification Measuring range -80 to +70 °C +/-0.8 °C (-80 to -35.1 °C); +/-0.5 °C (-35 to +70 °C) Accuracy Resolution 0.1 °C Reaction time $t_{90} = 30 \text{ min}$ Measuring rate 1 min to 24 h Weight 44 g 97 x 12 x 40 mm (LxWxH) Dimensions Operating temperature -80 to +70 °C Product-/housing material ABS Protection class System requirements Adobe® Acrobat Reader Product colour white Standards EN 12830; CE 2014/30/EU; DIN EN 50581:2013; DIN EN 61326-1:2013; CFR 21 Part 11 (in use with testo ComSoft CFR-Software) Certificate type Certified by HACCP International Channels 1 internal Operating time unlimited Authorizations CE; RTCA/DO-160G via LED Alarm function Lithium battery TLH-2450, 3V, exchangeable Battery type Battery life 100 days (at 15 mins measurement rate) Interface USB; NFC Memory 40,000 measuring values -80 to +70 °C Storage temperature

# FlashLink® USB Reusable Data Logger with External Probe



Download Requirements

- Single channel, external probe for product core temperature
- User Programmable: manual or automatic start, sample interval, alarm limits, data tags
- Large, easy to read LCD display
- Remaining Battery Indicator (low battery)
- Trip history statistics available on LCD
- NIST traceable and CE Mark
- USB Connection





- Dual channel, internal sensor for ambient air temperature and humidity
- User Programmable: manual or automatic start, sample interval, alarm limits, data tags
- Large, easy to read LCD display
- Remaining Battery Indicator (low battery)
- Trip history statistics viewable on LCD
- NIST traceable and CE Mark
- USB connection





- Single channel, internal sensor for ambient air temperature
- User Programmable: manual or automatic start, sample interval, alarm limits, data tags
- · Large, easy to read LCD display
- Remaining Battery Indicator (low battery)
- Trip history statistics available on LCD
- NIST traceable and CE Mark
- USB Connection

item Code SP-2090	
Feature	Specification
Probe Measurement Range	-40°F to 185°F (-40°C to 85°C)
Probe Size: Penetration tip (20902)	0.14in Dia x 3.98in L (3.5mm Dia x 101mm L), 3.28 ft (1m) Teflon cable
Blunt tip (20903)	0.15in Dia x 0.98in L (3.8mm Dia x 25mm L), 3.28 ft (1m) Teflon cable
Temperature Resolution	0.1°F/°C
Accuracy	+/-1.0°F from 14°F to 77°F (+/-0.5°C from -10°C to 25°C); +/-2.0°F above 77°F (+/-1.0°C above 25°C); +/-2.0°F below 14°F (+/-1.0°C below -10°C)
Data Capacity	3823 data points
Data Download Time	2 seconds typical for 3823 points
Programable Alarm Levels	High & Low levels over entire range
Battery	(CR2032) 3.6V Lithium/18 months
Dimensions/Body	1.575" x 3.189" x 0.575" (40mm x 81mm x 13mm)
Casing	PC/ABS plastic
Certification	CE Mark, NIST traceable, RoHS Compliant
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 with silicon cap on
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashLink Program Manager software or USB Program Manager software

Direct USB connection

Item Code	SP-20248
Feature	Specification
Measurement Range	-40°F to 122°F (-40°C to 50°C)
Operating Range	-40°F to 122°F (-40°C to 50°C)
Temperature Accuracy	+/-1°F (0.5°C) at 32°F to 150°F (0°C to 66°C) +/-2°F (1°C) over entire range
Temperature Resolution	0.1°F/C
Humidity Range	1% to 99% RH
Humidity Accuracy	+/-3% at 50% RH at 25°C
Data Capacity	21,000 data points
Data Download Time	5 seconds typical for 3800 points
Programmable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Two AAA 1.5V batteries
Dimensions/Body	1.57 in x 3.66 in x 0.94 in (87mm x 50 mm x 15 mm)
Casing	ABS plastic
Weight	1.4 oz. (39.7 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, RoHS Compliant
Display	LCD, Red LED Alarm
Waterproof Rating	IP56 (with silicon cap on)
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashLink Program Manager software
Download Requirements	Direct USB connection to PC

Item Code	SP-20908
Feature	Specification
Measurement Range	-40°F to 122°F (-40°C to 50°C)
Temperature Resolution	0.1°F/°C
Accuracy	+/-1.0°F from 14°F to 77°F (+/-0.5°C from -10°C to 25°C); +/-2.0°F above 77°F (+/-1.0°C above 25°C); +/-2.0°F below 14°F (+/-1.0°C below -10°C)
Data Capacity	3823 data points
Data Download Time	2 seconds typical for 3823 points
Programable Alarm Levels	High & Low levels over entire range, displayed on LCD
Battery	Coin Cell Lithium Battery, LCD % remaining power indicator
Dimensions/Body	1.575" x 3.189" x .575" (40mm x 81mm x 13mm)
Casing	PC/ABS plastic
Weight	1.3 oz. (36 grams)
Shock Resistance	Withstands 3-foot (1 meter) drop to hard surface
Certification	CE Mark, NIST traceable, RoHS Compliant
Display	LCD, Red LED Alarm
Waterproof Rating	IP64 with silicon cap on
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader
Programming	FlashLink Program Manager software
Download Requirements	Direct USB connection

## FlashLink® USB Reusable Data Logger Starter Kit



Item Code

Convenient Starter Kit Includes:

- · 3 FlashLink® USB Reusable Data Loggera
- · Free FlashLink Program Manager License
- USB Connections

The Starter Kit consists of three FlashLink® USB Reusable Data Loggers (model

These data loggers are important tools for monitoring ambient air in temperature controlled environments, such as cold storage warehouses, distribution centers, processing areas and in delivery vehicles. They provide valuable temperature history and summary data used for making cold chain management decisions, as well as for validation, thermal mapping, and documentation required for audits, inspections and regulatory compliance. FlashLink Program Manager Software downloads reports as PDF and CSV files, which are easily shared by email and

20908) and a FlashLink Program Manager Software license.

- Trip history statistics available on easy to read LCDs
- NIST traceable and CE Mark

# FlashLink® USB Reusable Temperature and Humidity **Data Logger**



Programming

**Download Requirements** 

- · Internal temperature and humidity sensors
- External temperature probe
- · Programmable settings: logging interval, upper/lower alarm limits, delay start
- · High/low alarm indicator with audible tone
- · Large, easy to read LCD
- · Built-in USB connector, no special reading device needed
- Minimum/maximum readings viewable on LCD

Item Code	SP-40550
Feature	Specification
Probe Measurement Range	-40°F to 185°F (-40°C to 85°C)
Internal Temperature Sensor Range	-22°F to 140°F (-30°C to 60°C)
Temperature Resolution	Temperature 0.2°F (0.1°C) Humidity 0.1% RH
Temperature Accuracy	+/-1.0°F from -4°F to +104°F (+/-0.5°C from -20°C to +40°C)
Humidity Measurement Range	0% to 99% RH
Humidity Accuracy	+/-4% RH (77°F/25°C, 20%-90% RH)
Data Capacity	8,000 data points
Programmable Sample Interval	10 seconds to 24 hours
Battery	Coin cell battery
Dimensions/Body	44mm x 84mm x 20mm
Casing	ABS plastic
Probe Size	0.08in Dia x 1.97in (2mm Dia x 50mm) 3 ft. (1m) cable
Certification	CE mark, NIST traceable, RoHS compliant
Display	LCD
PDF Standards	Complies with ISO 19005-1, PDF/A,
System Requirements	Windows PC with current operating system, Adobe Reade

Data Management software

Direct USB connection

## FlashLink® BLE (Bluetooth Low Energy) Reusable **Temperature Data Logger**



• Monitor temperature and location

Temperature, Time

& Portion Control

- Tracks route and conditions inside vehicles during delivery
- Tracks conditions in storage, processing and packing facilities
- Secure data is viewed with an Access Code or user permission only
- No need to open doors and locate logger for downloading
- Wirelessly transmits data to smart devices with app
- Customize settings: ID/name, logging interval, high/low alarm limits
- Email PDF and CSV reports from mobile device and web app
- Data stored in a cloud-based application
- · Analyze information from any web enabled device to make cold chain management decisions

item Code	SP-40900
Feature	Specification
Measurement Range	-4°F to 140°F (-20°C to 60°C)
Temperature Resolution	0.018°F/0.01°C
Accuracy	+/- 0.9°F from -4°F to 140°F (+/- 0.5°C from -20°C to 60°C)
Data Capacity	40,000 data points
Logging Interval	1 minute to 18 hours, user configurable
High Resolution Logging	Records temperature fluctuations of > 1.0°F / 0.5°C
Transmission Range:	~100 feet (30 meters)
Signal Strength:	Visible in Mobile App
Battery	Coin cell lithium
Dimensions/Body	1.7" x 0.5" x 3.8" (43 mm x 13 mm x 97mm)
Casing	ABS plastic
Weight	1.06 oz. (30 grams)
LED	Green and Red
Certification	CE mark, FCC compliant
System Requirements	iOS or Android 6.0.1, and Bluetooth 4.0, Requires internet access to save data to the cloud
Programming	Android™ / iOS® App
Download Requirements	Android™ / iOS® App
Data Download	Web access to archive data

#### FlashLink® PDF Multi-Use Data Logger



- Unit is designed to be used multiple times
- Logger is provided pre-programed
- No software needed to download data
- Built-in USB connector, no special reading devices required
- · Stops recording after downloading data
- Automatically creates secure PDF report and CSV file
- · Push-button resets and restarts unit for next use
- Temperature statistics available on LCD
- Custom configuring available for logging parameters, alarms, and delayed start





Item Code

- · Rechargeable and programmable
- · Monitors location, temperature, humidity
- Data transmitted via GSM cellular networks
- No need to open vehicle doors to access information
- 24/7 cloud service to view and analyze data remotely
- Make immediate cold chain management decisions
- Customize settings for high/low alarm limits
- Data stored in the cloud for traceability, audits, HACCP, and FSMA compliance





Item Code

- Compact, single-use temperature logger
- Shadow Log® guarantees trip data
- One model for any trip duration, up to 85 days
- No software required to download reports
- Built-in USB connector, no special reading device
- PDF and CSV reports in both °F and °C scales
- Recorded data automatically scales to fit full graph
- · Save and share files from PC or tablet

Item Code	SP-40203
Factoria	Connection Administration
Feature	Specification
Measurement Range	-40°F to 122°F (-40°C to 50°C)

Temperature Resolution 0.2°F /0.1°C +/-1.0°F from -4°F to 113°F; (+/-0.5°C from -20°C Accuracy to 45°C); +/-2.0°F above 113°F; (+/-1.0°C above 45°C); +/-2.0°F below -4°F; (+/-1.0°C below -20°C) 16.112 points Data Capacity 5 minutes Sample Interval Data Download Time 30 seconds typical Factory Programmed High/low limits over entire temp range Alarm Levels Battery Coin Cell Lithium battery Dimensions 1.93" x 3.62" x 0.67" (49mm x 92mm x 17mm) ABS plastic Casing Weight 1.6 oz. (45.36 grams) Shock Resistance Withstands 3-foot (1 meter) drop to hard surface Certification CE Mark, Calibration traceable to NIST, ROHS Compliant, BSS 7061 Compliant Display LCD, Red LED Alarm Storage Conditions -4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o

condensation

Direct USB connection

Complies with ISO19005-1, PDF/A, 21 CFR Part 11

PC with current operating system, Adobe Reader

PDF Standards

ments

Min. System Require-

Download Requirements

Feature	Specification
Temperature Range	-22°F to 140°F (-30°C to 60°C)
Temperature Accuracy	+/-1°F (0.5°C) from 14°F to 50°F (-10°C to 10°C) +/-2°F (1°C) from 50°F to 140°F (10°C to 60°C)
Temperature Resolution	0.1
Humidity Measurement Range	20% to 90% RH
Humidity Accuracy	+/-3% at 50% RH at 77°F (25°C)
Humidity Resolution	0.1% RH
GSM Network	2G Quad band GSM 850/900/1800/1900 MHz
Power Source	Lithium-ion Battery
Battery Life	7-90 days based on sample interval
Weight	6.21 oz (176 grams)
Logger Dimensions	3.74in x 3.74 in x 1.1in (95mm x 95mm x 28mm)
Certification	FCC, CE Mark, Temperature & Humidity Sensor NIST traceable

Feature	Specification
Measurement Range	-40°F to 140°F (-40°C TO 60°C)
Accuracy	+/-1.0°F from -4°F to 14°F (+/-0.5°C from -20°C to -10°C); +/-0.6°F from 14°F to 50°F (+/-0.3°C from -10°C to 10°C); +/-1.0°F from 50°F to 77°F (+/-0.5°C from 5°C to 25°C); +/-1.8°F if < -4°F or > 77°F (+/-1.0°C if < -20°C or > 25°C)
Data Download Time	5 seconds typical
Factory Programmable	High & Low levels over entire range
Delay Start	30 minutes
Battery	Coin Cell Battery
Dimensions	1.858in x 3.071 in x 0.402 in (47.2mm x 78mm x 10.2mm)
Weight	0.854 oz. (24.2 grams)/td>
Shelf Life	18 Months
Certification	RTCA/DO-160G Sect 21.5, CE Mark, Calibration traceable to NIST, RoHS Compliant
Display	Green and Red LED
Waterproof Rating	IP54 with silicone cap
Storage conditions	-4°F to 122°F (-20°C to 50°C) 0% to 95% RH w/o condensation
System Requirements	Windows PC with current operating system, Adobe Reader
Download Requirements	Direct USB connection to PC, tablet or printer

#### **Carton Of 100 Single Sachet Probe Wipes**



- Wipes measure 60 x 30mm
- · Convenient and easy to use
- Anti-bacterial
- · Effective against listeria and salmonella

#### Probe Wipes 180 Tub x 6



- QAC free tub of 180 in a carton of 6 tubs
- Wipes measure 130 x 130mm
- · Convenient and easy to use
- · Anti-bacterial
- Effective against listeria and salmonella

#### **Frying Oil Test Strips**



- Inexpensive, no sample preparation or special training required
- · Simple dip-and-read method
- Easy to read colour chart for decision making
- Contains 100 test strips

Item Code SP-836-220

These convenient, single sachet, white anti-bacterial Probe-Wipes are safe and

Each wipe measures approximately 60 x 30mm and is designed for one-time use. The single sachet wipes are sold in boxes of 100 sachets.

Item Code SP-836-05

Convenient and easy to use these anti-bacterial wipes are effective against, listeria, salmonella and other kitchen nasties.

The tubs are also supplied individually - order code SP-836-052.

An optional wall bracket is also available enabling a single tub of wipes to be conveniently positioned.

#### Item Code

These Frying Oil Quality Test Strips will help you keep the quality of your fried food high, as well as helping save money by preventing the premature disposal of cooking oil. The test strips work equally well in animal, vegetable and A/V blend frying oil (shortening). They are sold in storage bottles of 100 Oil Quality Test Strips which includes an easy to read colour chart.

To test your fryer oil, hold the test strip by the long white end, and dip the test strip into the oil (max oil temperature 40 °C) so all of the coloured band is submerged. Hold the test strip in the oil for 2 seconds, then remove it and wait 2 minutes, next, compare the strip to the colour chart. It is recommended that the testing of the frying oil is carried out at the start of each shift/working day before the user starts to apply heat to the oil. To ensure accuracy, the test strips should not be stored in humid conditions or in an area where they may be exposed to water or oil before use.

#### **Chlorine Test Papers**



- Simple test procedure requires no technical training
- Easy to match color with color chart included
- Reliable color matching at 10-50-100-200ppm
- · User-friendly dispenser package
- Economical pack provides approximately 200 tests

#### **Quat Ammonium Test Papers**



- Get room temperature test solution (65°F -75°F)
- Immerse test strip in still solution for 10 seconds
- · Compare color against the color chart
- Simple test procedure requires no technical training
- Easy to match color with color chart included
- User-friendly dispenser package
- Economical pack provides approximately 100 tests

# **pH Plastic Indicator Strips**



- Immediate response
- Direct reading ph stick with clear, bright color matches over the desired ph range
- Easy to match color with color chart included
- · Economical pack contains 300 strips
- Applications: Liquid, Semi-Solid, Solid Foods

Item Code SP-50014

Users of chlorine based sanitizer solutions are required to have kitchen safety test kits on hand to ensure their sanitizer solutions meet HACCP, federal and state health department requirements. The Chlorine Test Papers measure the concentration of chlorine based sanitizer solutions. These safety solution test papers provide the user with a simple, reliable, and economical means of meeting HACCP, federal and state health requirements. Simply dip the test strip in the chlorine sanitizer solution and compare color against the color chart. These kitchen safety test papers are approved by health department to be used for monitoring concentrations of chlorine sanitizing solutions.

#### Item Code SP-5001

Quaternary Ammonium can be used to wash and hand-sanitize food utensils. Washing and sanitizing utensils typically is included in kitchen safety and HACCP requirements. A color change of the test paper (0 to 400 ppm) compared against a color chart shows if the quat level is sufficient for sanitization. (3 rolls, 15' L each per box.)

Need a quick and easy method to ensure you are effectively sanitizing food surfaces and meeting HACCP requirements? Quaternary Test Papers are the answer. The test paper provides a simple and reliable method to verify the strength of Quaternary Ammonium sanitizers and ensure compliance with the food safety and HACCP laws enforced by federal, state, and local health departments.

#### Item Code

SP-50012

Acidity hinders bacterial growth and by controlling the level of acidity, or pH, food borne illnesses can be prevented. These food safety test strips are stiff plastic sticks (0 to 6 pH) that allow easy pH measuring of liquid, semi-solid and solid foods.

The food safety test 0.0 - 6.0 pH Dip-Stik strips are simple to use and require no technical training. To measure the pH of a solution, simply dip the test strip into the solution and match the resulting color change with the pH color chart.



Our monitoring systems and devices are designed for performance, ease of use, and cost. These have cutting-edge and state-of-the-art technolgies and simple-to-use features for guaranteed performance and reliability in any food or beverage environment.

# Testo® 206-pH1 - pH/temperature measuring instrument for liquids



- Ideal for measuring the pH value of liquids
- The integrated temperature probe enables automatic temperature compensation
- · Maintenance-free gel electrolyte
- Robust, waterproof and dishwasher-safe protective case (TopSafe, protection class IP68)





- Ideal for measuring the pH value of semi-solid media, viscous and proteincontaining foodstuffs (eg. processed cheese, fruit) and water-mixed solid cooling lubricants
- Temperature measurements with integrated temperature sensor possible
- Maintenance-free gel electrolyte
- Durable waterproof and dishwasher safe protective case

Item Code	SP-Testo 206-Ph1
Feature	Specification
Temperature Measuring range	0 to +60 °C (Short-term to +80 °C max. 5 min)
Temperature Accuracy	+/-0.4 °C
Temperature Resolution	0.1 °C
pH - Electrode Measuring range	0 to 14 pH
pH - Electrode Accuracy	+/-0.02 pH
pH - Electrode Resolution	0.01 pH
Weight	69 g
Dimensions	197 x 33 x 20 mm ((LxWxH)) 110 x 33 x 20 (without probe and TopSafe)
Operating temperature	0 to +60 °C
Product-/housing material	ABS
Protection class	IP68
Product colour	white
Authorizations	CE 2014/30/EU
Length probe shaft	3.5 mm; 35 mm
Diameter probe shaft	15 mm
Battery type	1 x CR2032
Battery life	80 h (Auto Off 10 min)
Display type	LCD (Liquid Crystal Display)
Display size	2 lines
Number of channels	2-channel
Measuring rate	2 measurements per second
Temperature compensation	automatic
Storage temperature	-20 to +70 °C

item code	31 16363 200 1112
Feature	Specification
Temperature Measuring range	0 to +60 °C (Short-term to +80 °C max. 5 min)
Temperature Accuracy	+/-0.4 °C
Temperature Resolution	0.1 °C
pH - Electrode Measuring range	0 to 14 pH
pH - Electrode Accuracy	+/-0.02 pH
pH - Electrode Resolution	0.01 pH
Weight	115 g (with TopSafe); 65 g (without TopSafe)
Dimensions	197 x 33 x 20 mm ((LxWxH)); 110 x 33 x 20 mm (without probe and TopSafe)
Operating temperature	0 to +60 °C
Product-/housing material	ABS
Protection class	IP68
Product colour	white
Diameter probe shaft	11 mm
Length probe shaft	35 mm
Authorizations	CE 2014/30/EU
Battery type	1 x CR2032
Battery life	80 h (Auto Off 10 min)
Display type	LCD (Liquid Crystal Display)
Display size	2 lines
Number of channels	2-channel
Measuring rate	2 measurements per second
Temperature compensation	automatic
Storage temperature	-20 to +70 °C

#### **Water Resistant pH Meter**



Item Code Feature

pH Accuracy

pH Resolution

Temperature Accuracy
Temperature Resolution

Temperature Range

Store current measurement

pH Range

Calibration

Display

Languages

Power save

values

Battery

Battery Life

Dimensions

Weight

IP Rating

- Works with non-glass probes with ISFET sensors
- Highly accurate 0.01 pH
- Rugged ergonomic, light weight design absorbs shock
- Large backlit 3.2 inch color display
- Intuitive, user friendly interface
- Intelligent calibration wizard simplifies process
- Full calibration reports generated at end of procedure
- · Rechargeable batteries

0°F to 248°F (-20°C to 120°C)

fined), button sound (on/off)

°F / °C - Automatic temperature correction

English, French, German, Dutch, Spanish

Display on/off button, display auto off

3 x AA NiMH 2400 mAh (15A-ANSI or

IEC-LR6) Rechargeable via USB; 7 hours

7 hrs continuous, 26 hrs with power save

(user defined), meter auto off (user de-

Specification

pH 0.00 to 14.00

1 and 2 point +/- 0.9°F (0.05°C)

0.1°F (0.1°C)

Max 10

enabled

recharge time

3.13 in X 6.30 in X 1.14 in (80 mm X 160 mm x 36 mm)

13.4 oz (379 grams)

+/- 0.01

0.01





- · Low cost, non-glass ISFET ph system
- · Instant response time
- · Stores dry, requires no fill solution
- Replaceable reference electrode
- · Auto Shut off
- Able to read a single drop of buffer or sample
- Quick pH readings of foods, soils, wastewater, pools, and other samples
- Protective case, pH 4.0 buffer solution and 7.0 buffer solution included



Laboratories

- - Pocket-sized ph meter, ideal for everyday use
     Automatic calibration feature
  - Easy to read 8 mm LCD display
  - Display hold function

Signay Note Valueto

pH PAL Plus pH tester Ideal For Food Processing And

Item Code	SP-24006
Feature	Specification
pH Accuracy	+/- 0.1pH
pH Resolution	0.1 pH
pH Range	2.0 to 12.0 pH
Temperature Accuracy	+/-2.0°F / 1.0°C
Temperature Resolution	0.1°C or 0.1°F
Temperature Measurement Range	32°F to 122 °F (0°C to 50 °C)
Temperature Operating Range	41°F to 104°F (5°C to 40°C)
Sensor	Silicon chip ISFET* pH sensor with on-chip temperature sensor Replaceable reference electrode
Calibration	Capable of one or two point calibration
Display	LCD with pH and Temperature
Automatic Buffer Recognition	Standard buffers of pH 4.0, 7.0, and 9.2
Battery Operation	One 3v lithium (CR2032) included
Battery Life	Approx. 150 hours of continuous use, automatic power off
Dimensions	5.6 in L x 1.1 in W x 0.6 in H (142 mm L x 28 mm W x 15 mm H)
Weight	1.48 oz (42g) meter only
IP Rating	IP67

Item Code	SP-813-513
Feature	Specification
Range - PH	0 to 14 pH
Range - temperature	0 to 50° C
Resolution	0.1 pH
Accuracy	+/-0.2pH
Battery; Battery life	4 x 1.5 volt LR44 button cell; 150 hours
Display	8mm LCD
Dimensions	15 x 32 x 170mm
Weight	70 grams
Case material	ABS plastic
Guarantee	one year
Water/dust resistance	water resistant

# **pH Buffer Solution**



- Use to check ph meters, testers & probes
- Supplied in 100ml bottles
- Available for 4.01, 7.00 and 10.01ph

Item Code SP-816-051

pH Calibration Buffer Solutions - These ready-made pH buffer solutions are available in a number of different values and are suitable for checking pH instrumentation and pH electrodes on our range of pH meters and testers.

These solutions make it a very simple matter to regularly check your pH meter or tester is accurately calibrated, and giving you the best possible results.

Buffer solutions are available for 4.01pH, 7.00pH and 10.01pH.

All buffer solutions are supplied in 100 ml bottles.



#### Testo<sup>®</sup> 270 - Cooking oil tester

- Capacitive oil sensor from Testo, together with its needs-based design, make it possible to take measurements in hot oil (user is protected from the heat of the deep fat fryer)
- IP 65: protected against water jets without a protective cover
- Clear, visual alarm indication via highly-visible alarm backlight in traffic light colours
- Washable case for hygienically stowing away at the application site



Item Code	SP-Testo 270
Feature	Specification
Temperature - PTC Measuring range	104° to 392 °F / +40 to +200 °C
Temperature - PTC Accuracy	+/-2.7 °F / +/-1.5 °C
Temperature - PTC Resolution	0.1 °F / 0.1 °C
TPM - Capacitive Measuring range	0.0 to 40.0 % TPM
TPM - Capacitive Accuracy	+/-2 % TPM (104° to 374 °F) / +/-2 % TPM (+40 to +190 °C) *typically, based on Testo in-house reference, at an ambient temperature of 77 °F
TPM - Capacitive Resolution	0.5 % TPM (104° to 374 °F) / 0.5 % TPM (+40 to +190 °C)
Operating humidity	0 to +90 %rH
Weight	9 oz. / 255 g
Reaction time	Approx. 30 sec
Dimensions	6.7 x 2.0 x 11.8 in. ((LxWxH)) / 170 x 50 x 300 mm ((LxWxH))
Operating temperature	32° to 122 °F / 0 to +50 °C
Housing	ABS / ABS-PC fibre glass 10%
Protection class	IP65
Product colour	white
Authorizations	CE 2014/30/EU
Length probe shaft	6.89 in. / 175 mm
Length probe shaft tip	1.378 in. / 35 mm
Diameter probe shaft	0.433 in. / 11 mm
Diameter probe shaft tip	0.394 in. / 10 mm
Alarm features	Upper and lower TPM limit value freely adjustable, visual alarm via 3-co- lour display backlighting (green, orange, red), values and illumination flash in the display until the measurement is ended (Auto Hold)
Battery type	2 AAA batteries 1.5 V (LR03)
Battery life	at 68°F approx. 25 h continuous operation (corresponds to approx. 500 measurements ), without display lighting
Display type	LCD
Display size	2 lines
Display ligthing	backlite
Storage temperature	-4° to 158 °F / -20 to +70 °C
Application temperature	104° to 392 °F / +40 to +200 °C



#### **Deep Frying Oil Tester & Thermometers**



- Helps determine the quality of frying
   oil
- Helps assist as to when frying oil should be changed
- Simple led traffic light indicator system
- Displays both temperature and %tpm values
- Supplied with free bottle of 816-090 calibration oil

## **Frying Oil Test Strips**



- Frying Oil Test Strips to test frying oil quality
- Inexpensive, no sample preparation or special training required
- Simple dip-and-read method easy to read colour chart for decision making
- Contains 100 test strips

Item Code	SP-825-890

Feature	Specification
Range	4 to 40% TPM & 30 to 200 °C Temperature
Resolution	0.1% TPM & 0.1 °C Temperature
Accuracy	+/-3% TPM & +/-1.5 °C Temperature
Battery	2 x 1.5 volt AAA
Battery life	25 hours continuous use
Sensor type	capacitance
Display	custom LCD
Dimensions	31 x 48 x 365 mm
Weight	250 grams

## Item Code SP-800-890

ETI test strips are designed to measure FFA (Free Fatty Acids) which is a carboxylic acid with a long chain. The more free fatty acids there are in oil, the higher the Acid Value (AV). Acid Value is the number of milligrams of potassium hydroxide (KOH) necessary to neutralise the fatty acids in 1 gram of oil sample. By submerging the reagent end of the test strip for 2 seconds, oil is absorbed and the fatty acids within the oil react with Potassium Hydroxide in the reagent.

After 2 minutes the colour developing chemical compound in the reagent changes dependant on the mg/KOH/g required to neutralise the FFA within the oil. This colour can then be matched with the colour chart on the rear of the bottle. 0-0.5 being IDEAL, 1.5-2.5 being CAUTION and 3.0-5.0 being BAD.

OIL (A.V.)/(KOH)mg/g

# **Deep Frying Tester Calibration Reference Oil**



- Calibrates 825-890 deep frying oil tester
- Exact match for the original calibration oil supplied

# 0 0.3 0.5 1.5 2.5 3.0 5.0

Item Code SP-816-090

Calibration Reference Oil for the ETI Deep Frying Oil Tester / Thermometer.

This is an exact match for the original calibration oil supplied with the 825-890 Deep Frying Oil Tester.



# Oleo Test®

Rapid test to measure TPM (Total Polar Material) in oil. It is a reliable, fast and cheap method to control the food oils quality. These tests allow in a few minutes and in extremely simple way. the reliable evaluation of food oils according to the presence and quantity of polar compounds.

Item Code	Description	Units
SP-OT50	total polar material in oil	Box of 50
SP-OT25		Box of 25
SP-OT10		Box of 10



# **Tips & Tricks**

- Easy to use. No technical skills needed.
- · Immediate results. It takes only two minutes.
- It's safe to use around people and food. Specially made for kitchens and unskilled staff.
- Adequate as it measures the percentage of total polar compounds (what the law requires). It shows when it's hazardous for health (>24%)
- Economic. It doesn't need maintenance, repair or calibrations, and it allows to use the oil until the
- Flexible. OleoTest® is available in boxes of different quantities (10, 25 or 50 tests, just for example). You can choose the one that best fits your needs, without having to invest more than vou need.
- Long validity period. It has a shelf life of 18 months after the date of manufacture, which is clearly labeled in all packages.
- Credible. The excellent correlation between the results obtained using OleoTest® and several other laboratory methods, including the official determination method for polar compounds (ISO 8420), is continuously verified in independents

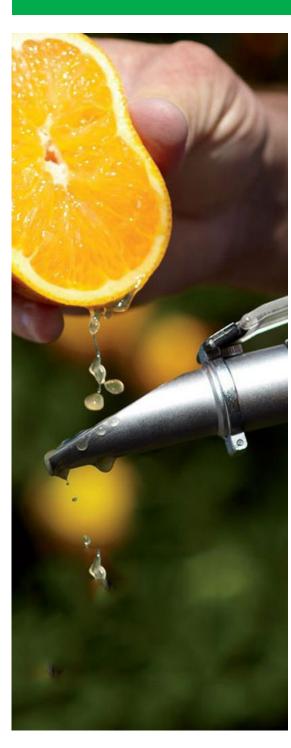




Frying is a cooking technique very much appreciated by the general population. However, it can propagate great amounts of fat and others substances (polar compounds) that can be consider as toxic due to the transformation occurred, when submitted to heat, of unsaturated fatty acids. These frying oil components can be harmful to health, more specifically to heart and arteries (main cause of death in many developed countries). as well as it can originate the manifestation of malignant illnesses such as lung and stomach cancers.

#### How OleoTest® Works

For a proper usage you should place the tube in the anti-burn holder and pour the warm oil sample (at least 60 °C) up to the line on the label present in the test tube. Shake the tube well (from 30 to 60 seconds) in order to produce a uniform mixture (the color changes when the oil is mixed with the reagent). Allow the mixture to settle for 2 minutes. Hold the tube vertically near a source of light and compare the obtained color to the color scale. Please note that if the result is on level 5, the oil should be discarded, as it has passed over the legal/recommended limit for polar compounds.



# **Digital Brix Meter Sugar Refractometer**



- Hand-held, digital brix meter
- Light-weight, portable, includes protective carrying case
- Measures concentration of sugar and dissolved solids in aqueous solution
- Automatic Temperature Compensation (ATC)
- Ideal for on-site measurement of juices and other sugar-based liquids
- Determine fruit quality during harvest, shipping, receiving, processing, storage

# **Analog Brix Meter Sugar Refractometer**



Hand-held, analog brix meter

Temperature, Time & Portion Control

- Light-weight, portable, includes protective carrying case
- Measures concentration of sugar and dissolved solids in aqueous solution
- Automatic Temperature Compensation (ATC)
- Ideal for on-site measurement of juices and other sugar-based liquids
- Determine fruit quality during harvest, shipping, receiving, processing, storage

Item Code	SP-12221
Feature	Specification
Brix Range	O - 55%
Brix Divisions	0.1
Brix Accuracy	+/-0.2%
Refractive Index Range	1.3330 - 1.4098
Refractive Index Divisions	0.0001
Refractive Index Accuracy	+/-0.0003
Temperature Measurement Range	50°F to 122°F (10°C to 50°C) Automatic Temperature Compensation
Temperature Accuracy	+/-1°F (+/-0.5°C)
Measurement Temperature Resolution	0.1°C
Measurement Response Time	≤ 3 seconds
Minimum Sample Volume	0.3 ml
Dimensions	5.5in x 2.4in x 0.9in ; (140mm x 62mm x 23mm)
Weight	6.17oz (175g)
Power Supply	3 x AAA Batteries
Battery Life	≥ 10,000 Readings
Waterproof Rating	IP65
Automatic Temperature Compensation	41°F to 104°F (5°C to 40°C)
Automatic Shut Off	3 minutes

Item Code		SP-12220
Feature	Specification	
Range	0% to 32%	
Resolution	0.2%	
Accuracy	+/-0.2%	
Automatic Temperature Compensation (ATC)	50°F to 86°F (10°C to 30°C)	
Dimension	30mm width x 163mm length	
Weight	147.4 grams	
Focus	Manual, adjustable	



#### **EnSURE™ Touch Monitoring System**



**EnSURE** Touch

EnSURE™ Touch is an advanced monitoring system that collects, analyzes and reports data from a variety of longtrusted quality test devices, providing rapid and accurate sanitation verification data. EnSURE™ Touch features a 5-inch touch screen, wireless sync technology. and cloud-based software. EnSURE™ Touch is designed to adapt to your workplace, providing the data you need for complex multi-location supply chain monitoring and risk management.

- Most sensitive ATP Monitoring System
- 5 inch shatter-resistant and glovecompatible touch screen
- Supports multiple languages
- · Security settings differentiate operators and administrators
- Rechargeable Lithium-lon battery with USB-C charging
- · Remote support

Item Code

#### Features

- Advanced Photodiode technology paired with a unique chemistry for maximum sensitivity and durability
- Intuitive smart navigation makes it easy for anyone to use
- Train remote teams with built-in screen sharing capability
- Tilt sensor ensures more accurate readings
- · Auto shut-off for smart battery management
- Simulate RLU values from other monitoring systems for easy adoption
- Automatic software updates include new features and improvements based on customer feedback

#### **Compatible Tests**

- UltraSnap™
- SuperSnap™
- AquaSnap™ Total
- AquaSnap™ Free
- MicroSnap™ Coliform

- MicroSnap™ E. coli
- MicroSnap™ Enterobacteriaceae
- MicroSnap™ Total
- ZymoSnap ALP
- · CrossCheck ACP

#### **SureTrend™ Cloud-Based Data Analysis Software**

Temperature, Time

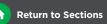
& Portion Control



View hygiene monitoring test results across multiple facilities. SureTrend™ Cloud is a free, easy-to-use data analysis software that unleashes the power of the EnSURE™ Touch luminometer. SureTrend Cloud wirelessly connects luminometers across multiple facilities to sync test results and empower you to centrally configure one or hundreds of EnSURE Touch luminometers. It gives you one universal view of your food safety program, helping you to see results sooner and make decisions quicker.

- Automatic Software updates so you always run the latest version
- · New features added regularly based on customer feedback
- Data encrypted and secured via SSL
- Scalable and customizable to your needs
- · Interactive dashboard for quick data insights
- · Easily configure one or hundreds of instruments from a single account
- · Monitor testing results across one or multiple facilities
- Personalized reports
- Compatible with most internet browsers (Google Chrome recommended)







## **EnSURE™** Monitoring System



EnSURE™ is a quality monitoring system that uses one instrument platform to collect, analyze, and report data from multiple quality indicators. Using new state-of-the-art technology and patented designs, the EnSURE system is a simpleto-use, flexible, and accurate quality monitoring system.

- Advanced photodiode sensor offers superior stability, stays in calibration
- Provides real-time results in 15 seconds
- Complimentary SureTrend Data Analysis Software

#### **SureTrend™ Data Analysis Software**



SureTrend™ Data Analysis Software takes test results and data from your Hygiena monitoring system and easily converts them into comprehensive reports that illustrate trends and show continuous improvement. SureTrend™ is easy to use and free with your Hygiena monitoring system.

• Helps meet audit requirements

Temperature, Time

& Portion Control

- · Identifies problem areas for immediate corrective actions
- Fraud-proof, test results cannot be changed or deleted
- · Intuitively tracks and trends test results to generate actionable reports
- PC/Windows compatible

# **EnSURE**

#### Item Code

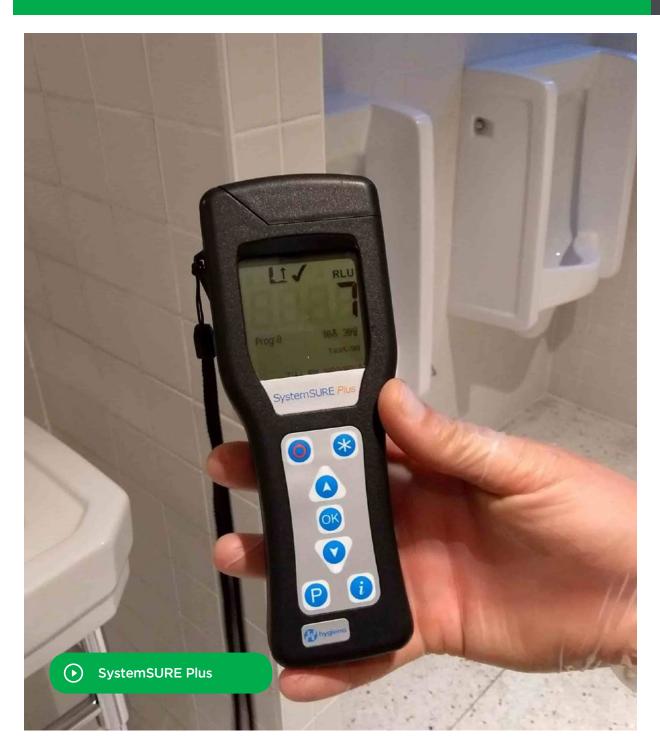
## **Compatible Tests**

- UltraSnap™
- SuperSnap™
- AquaSnap™ Total
- AquaSnap™ Free
- MicroSnap™ Total

- MicroSnap™ EB
- MicroSnap™ Coliform
- MicroSnap™ E.Coli
- ZymoSnap ALP
- · CrossCheck ACP"







## **SystemSURE Plus ATP Sanitation Monitoring System**



SystemSURE Plus™ is the next-generation system of the world's best-selling SystemSURE II ATP hygiene monitoring system. With improved functionality, new software, and increased memory, the SystemSURE Plus meets the demands of the largest and smallest companies around the world.

- Sensitive to down to 1.0 femtomoles of
- Advanced photodiode sensor stays in calibration
- Provides real-time results in 15 seconds
- Calibration self-check at start up with optional full diagnostic check mode
- Complimentary Suretrend Data Analysis Software
- AA Battery operated

Temperature, Time & Portion Control

# SystemSURE Plus

Item Code

#### **Compatible Tests**

- UltraSnap™
- SuperSnap™
- AquaSnap™ Total

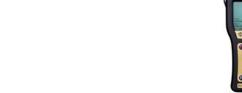
- AquaSnap™ Free
- EndoSwab Endoscope Sampling Swab



# Hygiena

**Monitoring System Comparison Chart** 







**En**SURE

SystemSURE Plus

Sensitivity	0.1 femtomoles	0.1 femtomoles	1.0 femtomoles
Reproducibility	8-18%	8-18%	8-18%
Read Time	10 seconds	15 seconds	15 seconds
Calibration Verification	✓	$\checkmark$	$\checkmark$
Programmable Locations	>1,000,000	5,000	5,000
Test Storage Capacity	>1,000,000	2,000	2,000
Run Reports on Meter	✓	×	X
Input Locations/Plans on Meter	✓	×	×
Manage Locations on Meter	✓	×	×
Manage Plans on Meter	✓	×	×
Store Locations by Line	✓	×	×
Programmable Test Plans	✓	$\checkmark$	✓
Programmable User Names	✓	$\checkmark$	$\checkmark$
Test Point Randomization	✓	$\checkmark$	✓
Power Supply	Internal rechargeable lithium ion battery	2 AA Alkaline batteries	2 AA Alkaline batteries
Battery Run Time	8-10 hours depending on use	8-12 months depending on use	8-12 months depending on use
Battery Charge Time	3-4 hours	N/A	N/A
Full Touchscreen UI	✓	×	×
Wi-Fi Capable	✓	×	×
RLU Simulation	✓	×	×
Wireless Sync	✓	×	×
On-Screen Remote Support	✓	×	×
Light Sensor	Photodiode	Photodiode	Photodiode
Instrument Size	17.8x7.6x2.5cm	18.5x7x3cm	18.5x7x3cm
Instrument Weight	.70 lbs	.57 lbs	.57 lbs
Data Analysis Software	SureTrend Cloud	SureTrend	SureTrend
Number of Programmed Reports	30+	30	30
Cloud-Based Software	✓	×	×
Excel Compatible	✓	$\checkmark$	$\checkmark$
Networkable for Multiple Systems	✓	$\checkmark$	$\checkmark$

# **ATP Testing**

#### **UltraSnap™** Surface ATP Test

UltraSnap™ is a user-friendly, all-in-one ATP sampling test used with Hygiena luminometers. This pen-sized sample collection device is easy to use, small, and environmentally friendly. In addition, UltraSnap uses a unique liquid-stable reagent providing superior accuracy, longer-lasting signal strength, and more reproducible results.

#### Item Code SP-US202

- · Offer Consistent and reliable results
- Pre-moistened swab bud breaks through biofilms for maximum sample collection
- · Can be kept at room temperature or in cold storage
- · Compatible with all Hygiena luminometers"





# SuperSnap™ High Sensitivity Surface ATP Test

"SuperSnap™ is 4x more sensitive than UltraSnap™. It's capable of detecting extremely low levels of ATP, making it perfect for supporting stringent SOPs, including allergen cross-contamination prevention. And, like all Hygiena™ swabs, it's extremely easy to use. Just swab, snap and squeeze. Get results in seconds, take immediate corrective actions and get back to production.

Compatible with all Hygiena™ luminometers.

#### Item Code

SP-SUS3000

- Most Sensitive ATP test validated by a third-party study (4 times as sensitive as UltraSnap ™)
- Robust reagent has superior resistance to sanitizers and extreme PH environments
- · Offers consistent and reliable results
- · Compatible with all Hygiena luminometers





# **SnapShot™** Universal Surface ATP Test

SnapShot™ universal ATP surface tests are compatible with most manufacturers' luminometers. Each version is designed to replicate the ATP reaction of the test it's replacing, eliminating the need to change pass/fail settings. In addition, SnapShot uses Hygiena's unique liquid-stable reagent, allowing for more reproducible results. SnapShot devices cost up to 50% less, allowing users to expand their testing program with the same budget.

#### Item Code

SP-SPXL 13:

- Efficient device design offers superior sample recovery
- Offers increased test repeatability and reliability over competitor swabs
- No need to change pass/fail settings



#### AquaSnap™ Total Water ATP Test

AquaSnap™ Total measures both microbial ATP (living cells and particulate matter) and Free ATP (non-microbial or dead cells) in solution. The device contains a detergent to release ATP that is bound to microbial or organic matter and inside microbes. AquaSnap is easy to use, economical and gives real-time results. The specifically designed dipper tip collects 100 Ql of water ensuring consistent sample collection. Use AquaSnap Total in combination with AquaSnap Free to determine microbial ATP in a water sample.

#### Itam Code

P-AQ-100FX

- Honey dipper collection tip collects consistent 100ul sample
- Detects contamination from both microbial and nonmicrobial sources
- · Offers actionable results
- Compatible with all Hygiena luminometers





# **Allergen Testing**

# SuperSnap™ High Sensitivity Surface ATP Test

"SuperSnap™ is 4x more sensitive than UltraSnap™. It's capable of detecting extremely low levels of ATP, making it perfect for supporting stringent SOPs, including allergen cross-contamination prevention. And, like all Hygiena™ swabs, it's extremely easy to use. Just swab, snap and squeeze. Get results in seconds, take immediate corrective actions and get back to production. Compatible with all Hygiena™ luminometers.

#### Item Code

SP-SUS3000

- Most Sensitive ATP test validated by a third-party study (4 times as sensitive as UltraSnap ™)
- Robust reagent has superior resistance to sanitizers and extreme PH environments
- · Offers consistent and reliable results
- · Compatible with all Hygiena luminometers





# AllerSnap™ High Sensitivity Allergen Prevention Test

AllerSnap™ is a quick and easy way to verify the cleanliness of surfaces by detecting protein residues left behind after cleaning. By simply swabbing the area and activating the device, you release a reagent that turns color, providing a qualitative and semi-quantitative result of the protein levels on the surface: green means clean and purple means re-clean. The more protein present, the quicker the color change to purple and the darker the color. AllerSnap™ quickly validates surface hygiene, allowing immediate corrective action to be taken when necessary.

#### Item Code

SP-ALS-10

- Quickly validates surface hygiene in 15-30 minutes
- Uses broad-range protein detection offering increased speed over specific allergen tests
- Easy-to-interpret color results; green means clean; purple means re-clean
- · Sensitibe down to 3ug protein



Temperature, Time

& Portion Control



#### AllerFlow Gluten Environmental Gluten Surface Residue Test kit

Hygiena™ AllerFlow Gluten is a rapid and convenient test for the detection of gluten residue on surfaces as part of an allergen monitoring program. Combining Hygiena's convenient sample collection swab design and classic lateral flow technology, AllerFlow Gluten makes gluten testing easier than ever before.

#### Item Code SP-ALF-GI

- Simple two-part kit includes all materials; no pipettes, bottles, or heating blocks required
- Pre-measured, self-contained extraction buffer provides consistent results
- · No cross-reactivity with soy, rice, or corn
- Specific to the allergenic fraction of gluten from wheat, barley, rye, and oat
- Sensitive to 5  $\mu$ g (5 ppm) gluten.





# **Surface Residue Testing**

# **SpotCheck Plus Glucose & Lactose Detection Device**

Hygiena™ SpotCheck Plus detects the presence of glucose and lactose on a surface. Simply swab a surface, release the reagent and if any residue containing glucose and/or lactose is present the reagent will turn green, indicating poor surface hygiene. The more contamination present, the quicker the color change and the darker the color. SpotCheck Plus instantly validates the hygiene of a surface, allowing immediate corrective action to be taken.

#### Item Code SP-GL100

- · Results in 60 seconds
- Easy-to-interpret color change; no lab equipment required
- Sensitive to 2.5 umoles of D-glucose and 5.0 umoles of lactorse



#### **CrossCheck ACP Cooking Efficiency Test**

Hygiena™ CrossCheck measures acid phosphatase activity, a natural enzyme present in raw meat. CrossCheck is used with finished products to verify thermal processing and can also be used on food contact surfaces to measure raw meat residues and cross-contamination hazards.

Item Code

3P-GX-300

- · Results in 2-5 minutes
- · Determines product and surface safety
- · Detects down to 0.1% or less of raw meat or fish"



# **Surface Residue Testing**

## **PRO-Clean™** Rapid Protein Residue Test

PRO-Clean™ is the easiest and most accurate way to verify the cleanliness of food equipment surfaces. Simply swab a surface and release the reagent. If protein residue is present, the reagent will turn purple – the more contamination, the quicker the color changes and the darker it becomes. PRO-Clean™ instantly validates surface hygiene, allowing immediate corrective action to be taken when necessary.

#### Item Code

P-580-10

- Results in 10 minutes or less
- · Easy-to-interpret color change
- · No lab equipment required
- Shelf life: 18 months at room or refrigerated temperatures (2-25 °C)
- Sensitive to 2.5 umoles of D-glucose and 5.0 umoles of lactose



# **Indicator Organism Testing**

# MicroSnap™ E.Coli

MicroSnap™ E. coli is a rapid test for detection and enumeration of E. coli bacteria. The test uses a novel bioluminogenic test reaction that generates light when enzymes that are characteristic of E. coli bacteria react with specialized substrates. The light-generating signal is then quantified in the EnSURE™ Touch luminometer. Depending on the required level of detection, MicroSnap™ E. coli is able to give results in the same day.

Item Code

SP-MS2 ECOL

- · Same-day results
- Tests a wider dynamic range than traditional testing methods









# **Pathogen Testing**

#### Insite™ Listeria

Hygiena™ InSite™ Listeria is an easy-to-use, self-contained, environmental Listeria species test. Each device contains a chromogenic liquid media formulated with antibiotics, growth enhancers, and color-changing compounds specific to Listeria species. Plus, all InSite™ test devices contain neutralizers in the wetting solution to help combat potential sanitizer side effects and improve sample collection. Simply swab the test area and wait. A change in color after 24-48 hours of incubation is considered a presumptive positive. No expensive lab equipment is required and no additional sample handling of the sample is necessary.

#### Item Code

- Presumptive positive in 24 hours, negative results given in 48 hours confirm on Hygiena BAX System
- · Easier to use than other testing methods
- · Luminometer not required





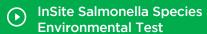
## **Insite™** Salmonella

"Hygiena™ InSite™ Salmonella is an easy-to-use, selfcontained, environmental Salmonella spp. test. Each device contains a liquid medium formulated with growth enhancers and chromogenic compounds selective for Salmonella species. All InSite™ test devices contain neutralizers in the wetting solution to help combat potential sanitizer side effects and improve sample collection. Simply swab the test area and incubate. A change in color after 24-48 hours of incubation is considered presumptive positive for Salmonella species. No expensive lab equipment is required.

#### Item Code

- resumptive positive in 24 hours, negative results given in
- · Easier to use than other testing methods
- · Luminometer not required







# **Digital Dry Block Incubators**

Designed specifically for Hygiena's wide variety of test devices, our Digital Dry Block Incubators are flexible to fit your unique needs. Incubators are available in two different sizes and multiple configurations.

- Auto-stop and sound alerts assist in perfect incubation
- Flexible configuration accommodates swab test devices or larger tubes
- Heats to maximum temperature in 15 minutes
- Wide, digitally controlled temperature range (RT+5°C to 105°C)

Item Code	Item
SP-INCUBATOR	Small Format Digital Dry Block Incubator
SP-INCUBATOR2	Lab Format Digital Dry Block Incubator
SP-IB001	35 Wells Hygiena Vial Tube Block
SP-IB002	15 Wells Hygiena Vial Tube Block
SP-IB003	12 Wells Hygiena Vial Tube Block
SP-IB004	6 Wells Hygiena Vial Tube Block



Temperature, Time & Portion Control









SP-IB003

SP-IB004

#### **Automated Thermal Block**

The Hygiena Automated Thermal Block is an automated heating and cooling device that is programmed to perform the lysis steps of BAX System protocols. By automatically providing sequential heating and cooling conditions, the Hygiena Thermal Block eliminates the need to manually transfer samples between separate heating and cooling blocks. At the end of each lysis program, the block holds the samples at 4°C until you remove them.

Item Code





Whether working with a large recipe or individual order, portion control scales can ensure that your staff produce a consistent, quality product without wasting valuable ingredients or toppings.



# **Portion Control Digital Scale**

- 4 display configurations
- Counting and percentage models
- Stainless steel removable platform
- Tare feature
- Optional food pedal

Item Code	SP-SCDGPC13
Dimensions	3" x 12.5" x 15.75" (76 x 318 x 400 mm)
Weight	10.2 lbs (4.7 kg)
Capacity	13 lbs (6 kg)
Increments	0.1 oz (2 g)
Adapter/Batteries	Power Adapter Included



Item Code	SP-SCDGPCM13
Dimensions	2.5" x 6.25" x 9.5" (64 x 159 x 241 mm)
Weight	2 lbs (0.9 kg)
Capacity	13 lbs (6 kg)
Increments	0.1 oz (1 g)
Adapter/Batteries	Power Adapter Included



# **Large Square Digital Kitchen Scale**

- Stainless steel removable weighing surface
- Tare feature
- Sealed buttons and display
- Automatic shut-off

Item Code	em Code SP-SCDG1	
Dimensions	3.75" x 7.25" x 9.75" (95 x 184 x 248 mm)	
Weight	2.59 lbs (1.2 kg)	
Capacity	13 lbs (6 kg)	
Increments	0.1 oz (1g)	
Adapter/Batteries	Power Adapter Optional, Batteries Included	

Temperature, Time & Portion Control





# **Round Professional Digital Scale**

- Simple 2 button operation
- Tare feature
- Automatic shut-off
- Removable platform

Item Code	Color		
SCDGP11*	BK (Black); M (Mettalic); RD (Red)		
Dimensions		1.65" x 6" x 8.5" (42 x 152 x 216 mm)	
Weight		1.02 lb (0.46 kg)	
Capacity		11 lb (5 kg)	
Increments		0.1 oz (1g)	
Adapter/Batt	teries	Power Adapter Optional, Batteries Included	





## **HACCP Color-Coded Scale Platforms**

- Colored platforms prevent cross-contamination of food
- Platforms easily interchangeable
- Dishwasher safe

Item Code	Color	Dimensions
SP-SCDGLPPLT*	WH (White) GN (Green)	5.75" x 5.75" (146 x 146 mm)
SP-SCDG11PLT*	WH (White) BL (Blue) YL (Yellow) PR (Purple)	5.5" x 5.5" (139 x 139 mm)









# **Low-Profile Digital Kitchen Scale**

- Stainless steel removable platform
- Tare feature
- Sealed buttons and display
- Auto shut-off

Item Code	SP-SCDGPC13
Dimensions	1.5" x 5.75" x 8.25" (38 x 146 x 210 mm)
Weight	0.68 lbs (0.3 kg)
Capacity	13 lbs (6 kg)
Increments	0.05 oz (0.5 g)
Adapter/Batteries	Power Adapter Optional, Batteries Included



# **Square Professional Digital Scale**

- Removable Stainless Steel Platform
- Parts Counting
- Sealed display
- Display Hold

Item Code	SP-SCDG33BK
Dimensions	3.75" x 8.5" x 8.25" (95 x 216 x 210 mm)
Weight	4 lbs (1.8 kg)
Capacity	33 lbs (15 kg)
Increments	0.1 oz (1 g)
Adapter/Batteries	9V A/C Power Adapter Optional, 9V battery included

