



# Temperature °Controls Pty Ltd

Specialists in Industrial Temperature Measurement



**No more problems with  
your temperatures!**

**Temperature measurement according to HACCP**

**Robust and reliable  
thermometers for  
food control!**



## Quality label



### Suitability of measuring instruments for food use

The measuring instruments have been tested and due to the type, the materials used, the technology and the measurement precision, they are applicable for all kind of temperature measurements for the control of food safety.



### Measuring instruments with calibration certificate

A calibration certificate is issued based on comparison measurements with a reference standard, which has been DKD-certificated and accepted by the PTB. Therefore the measuring instrument is traceable to national standards and is compliant with the requirements of the ISO 9000 quality standard.



### Swiss Precision Sensor

In collaboration with a Swiss high tech company TFA developed high quality sensors for hygrometers and barometers with the precision of industrial measuring instruments:  $\pm 3\%$  relative humidity and  $\pm 1$  hPa. All products using such precision sensors are labelled in the catalogue and on the packaging with this red quality seal.



### Conform EN 13485

According to the European standard specifications for thermometers for the transport, storage and distribution of chilled, frozen and deep-frozen food and ice cream.



### Conform EN 12830

According to the European standard specifications for temperature recorders for the transport, storage and distribution of chilled, frozen and deep-frozen food and ice cream.

## Calibration

All instruments are able to be calibrated against instruments with NATA certification.

Calibration of instruments and temperature sensing probes with NATA certification is available at extra cost.

Contact our office for more information and pricing.

Response time  $t_{90}$  = is the time, in seconds, required for the sensor to reach 90% of the final temperature (in running water).

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## Waterproof precision thermometer

Ideal for measurements in accordance with HACCP. The meter is designed especially for the operating conditions of the food branch. The instrument is IP65 protected. The measurement accuracy ( $\pm 0.3^{\circ}\text{C}$ )

### P400W - Pt100-temperature instrument



- for all HACCP temperature controls
- Splashwater protected and washable (IP65)
- Pt100, 4-wire technology ( $\pm 0.3^{\circ}\text{C}$ )
- Storage of MAX- and MIN-values
- HOLD-function for measurements in inaccessible places
- Integrated sensor holder for one hand operation
- adjustment function
- PC-interface
- Storing of 19 measuring values
- $^{\circ}\text{C}/^{\circ}\text{F}$ -switchable

*Order Tip:*  
PTFE-sensor  
No. 6000-3471W  
up to  $250^{\circ}\text{C}$



#### Applications:

- Food industry
- Incoming inspection
- Cooling and freezing plant control
- Market
- Rapid temperature control
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Input:	Pt100, 4-wire
Measuring range:	$-99.9...+850^{\circ}\text{C}$
Accuracy:	$\pm 0.3^{\circ}\text{C}$ , ( $\pm 1$ Digit - only instrument)
Resolution:	$0.1^{\circ}\text{C}$ from $-99.9...+399.9^{\circ}\text{C}$ , otherwise $1^{\circ}\text{C}$
Memory:	19 measurements
Connector:	4-pole special connector IP65
Storage temperature:	$0...+50^{\circ}\text{C}$
Display:	1-Line LCD
Housing:	plastic (ABS)
Dimensions:	130 x 65 x 25 mm (L x W x H)
Weight:	240 g
Power supply:	2 x 1.5 Volt AA
Battery life time:	appr. 160 h

Order No.	
<b>5000-0405</b>	P400 hand-held measuring instrument, $-99.9...+850^{\circ}\text{C}$ , (IP65 protected)
<b>6000-3006W</b>	Stainless steel insertion probe, L = 150 mm, $\varnothing = 4.0$ mm
<b>6000-3471W</b>	Insertion probe, stainless steel with PTFE handle and cable (2000 mm), fully heat resistant up to $+250^{\circ}\text{C}$ , L = 140 mm, $\varnothing = 4.0$ mm
<b>5990-0017</b>	Spare battery, 1.5 Volt AA
<b>5020-0551</b>	Pre-drill for frozen goods

## Robust hand-held measuring instrument

The P300 splashwater protected, robust and handy instruments are ideal for measuring operations under harsh ambient conditions.

### P300



- for all HACCP temperature controls
- Splashwater protected and washable (IP54)
- NTC sensor
- Storage of MAX- and MIN-values
- HOLD-function for measurements in inaccessible places
- Integrated sensor holder for one hand operation
- $^{\circ}\text{C}/^{\circ}\text{F}$ -switchable
- Backlight

*P300Z*  
(5000-0300Z) with  
calibration Certificate  
at  $0^{\circ}\text{C}$  and  $+60^{\circ}\text{C}$



#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Market
- Temperature control
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	NTC
Measuring range:	$-40...+200^{\circ}\text{C}$
Resolution:	$0.1^{\circ}\text{C}$
Accuracy:	$\pm 0.5^{\circ}\text{C}$ ( $0...+100^{\circ}\text{C}$ , remaining range $\pm 1.5^{\circ}\text{C}$ )
Work temperature:	$0...+40^{\circ}\text{C}$
Storage and transport temperature:	$-20...+70^{\circ}\text{C}$
Display:	LCD, numerical height 15 mm
Power supply:	2 x 1.5 V Batterie AA Size
Battery life time:	> 12 month (without illumination)
Dimensions:	130 x 65 x 25 mm (L x W x H)
Tube:	120 x 3,5 mm (L x $\varnothing$ )
Weight:	240 g

Order No.	
<b>5000-0300</b>	P300 hand-held measuring instrument incl. insertion probe
<b>5000-0300Z</b>	P300 hand-held measuring instrument incl. insertion probe and calibration certificate at $0^{\circ}\text{C}$ and $+60^{\circ}\text{C}$
<b>5600-0016</b>	Storage case for P300/P400
<b>5990-0017</b>	Spare battery, 1.5 Volt AA
<b>5020-0551</b>	Pre-drill for frozen goods

## Robust and handy insertion thermometer

Ideal for simple temperature check on food. Universally used in liquid, powdered and plastic materials.

### Pocket-DigiTemp



- Water-tight
- 1-second measuring interval
- MAX-MIN-HOLD-function
- Power switch
- both with protective cover
- °C/°F-switchable



#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Market
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	NTC
Measuring range:	-40...+200°C
Resolution:	0.1°C
Accuracy:	±0.8°C (-20...+100°C) remaining range ±1.5°C
Response time t90:	approx. 7 seconds in water
Dimensions:	150 x 20 x 16 mm (short version) 202 x 20 x 16 mm (long version)
Probe:	75 x 3,5 mm (short version) 126 x 3,5 mm (long version)
Weight:	60 g
Battery life:	typical 200 hrs continuous use
Power supply:	1.5 V button cell LR44

Order No.	
<b>5020-0395</b>	Pocket-Digitemp (short version)
<b>5020-0345</b>	Pocket-Digitemp (long version)
<b>5990-0022</b>	Spare battery, 1.5 Volt LR44
<b>5020-0551</b>	Pre-drill for frozen goods

### LabTherm



- Water-tight
- 1-second measuring interval
- MAX-MIN-HOLD-function
- Switchable auto-off function
- Incl. Cover and mounting clip
- °C/°F-switchable
- Zero function



#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Market
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	NTC
Measuring range:	-40...+250°C
Resolution:	0.1°C
Accuracy:	±0.5°C (-10...+100°C) remaining range ±1.5°C
Response time t90:	approx. 7 seconds in water
Work temperature:	0...+50°C
Battery life:	typical 200 hrs continuous use
power supply:	1.5 V button cell LR44
Dimensions:	220 x 25 x 20 mm (L x W x H)
Probe:	106 x 3,5 mm (L x Ø)
Weight:	50 g

Order No.	
<b>5020-0398</b>	LabTherm Pocket thermometer
<b>5990-0022</b>	Spare battery, 1.5 Volt LR44
<b>5020-0551</b>	Pre-drill for frozen goods

## Robust and handy insertion thermometer

Fold-out thermometer in pocket-size, for easy temperature measurements in liquid, powdered and plastic materials. The food safe housings are completely water-tight and easy to clean!

### ThermoJack



- Water-tight IP65
- 1-second measuring interval
- Very fast response time
- °C/°F-switchable



#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Market
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	NTC
Measuring range:	-40...+250°C
Resolution:	0.1°C
Accuracy:	±0.5°C (-20...+150°C) remaining range ±1.0°C or ±1%
Response time t90:	approx. 6 seconds in water
Dimensions:	116 x 38 x 20 mm
Probe:	70 x 3.5 mm
Weight:	41.2 g
Battery life:	200 hrs at continuous use
Power supply:	Button cell, 3 Volt CR2032

Order No.	
<b>5020-0553</b>	ThermoJack
<b>5990-0067</b>	Button cell, 3 Volt CR2032
<b>5020-0551</b>	Pre-drill for frozen goods

### ThermoJack PRO



- Water-tight IP65
- 1-second measuring interval
- Very fast response time
- °C/°F-switchable
- certificate at 0°C



#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Market
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	Thermoelement
Measuring range:	-50...+350°C
Resolution:	0.1°C
Accuracy:	±0.5°C (-30...+150°C) remaining range ±1.0°C or ±1%
Response time t90:	approx. 4 seconds in water
Dimensions:	145 x 35 x 18 mm
Probe:	110 x 3,5 mm
Weight:	100 g
Battery life:	100 hrs at continuous use
Power supply:	Button cell, 3 Volt CR2032

Order No.	
<b>5020-0552</b>	ThermoJack PRO, incl. calibration certificate
<b>5990-0067</b>	Button cell, 3 Volt CR2032
<b>5020-0551</b>	Pre-drill for frozen goods

## Insertion thermometer in T-Bar design

Robust instrument with reduced insertion tip (GT1) or with corkscrew tip for frozen food (GT2). The T-Bar design enables safe working with solid measurement mediums (meat, vegetables...).

### GT1 Insertion thermometer in T-Bar design with reduced insertion tip

- Splash water proof
- 1-second measuring interval
- MAX-MIN-function
- Protective cover and pocket clips included



### GT2 Frozen food thermometer in T-Bar design with corkscrew tip

- Splash water proof
- 1-second measuring interval
- MAX-MIN-function
- Protective cover and pocket clips included
- Corkscrew tip



#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Market
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Market
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	NTC
Measuring range:	-50...+150°C
Resolution:	0.1°C
Accuracy:	± 1.0°C (-10...+100°C)
Response time t90:	approx. 12 seconds
Dimensions:	84 x 26 x 175 mm
Probe:	120 x 5.0 mm
Weight:	101 g (incl. packaging)
Battery life:	Typical for 2000 hours at continuous operation
Power supply:	Button cell 1.5 Volt 357A

Technical data	
Sensor:	NTC
Measuring range:	-50...+150°C
Resolution:	0.1°C
Accuracy:	± 1.0°C (-10...+100°C)
Response time t90:	approx. 30 seconds
Dimensions:	100 x 50 x 166 mm
Probe:	120 x 8,0 mm
Weight:	141 g (incl. packaging)
Battery life:	Typical for 2000 hours at continuous operation
Power supply:	Button cell 1.5 Volt 357A

Order No.	
5020-0350	GT1 Robust insertion thermometer in T-design
5990-0022	Spare battery, 1.5 Volt 357A / LR 44

Order No.	
5020-0351	GT2 Robust thermometer with drill for frozen materials in T-design
5990-0022	Spare battery, 1.5 Volt 357A / LR 44

## Our kitchen helpers



### Freezer-fridge-thermometer

- plastic, rotating
- -40...+5 °C
- 215 mm
- 35 g
- 10 KA
- 10 SB



### Freezer-fridge-thermometer

- plastic
- -30...+0 °C
- 153 x 24 mm
- 20 g
- 10 KA
- 10 SB



<b>Order No.</b>	
<b>5014-4003</b>	Freezer-fridge-thermometer

<b>Order No.</b>	
<b>5014-4000</b>	Freezer-fridge-thermometer

### Digital-freezer-fridge-thermometer

- Indication of temperature with corresponding freezer-fridge symbol, highest and lowest temperature
- -30...+5 °C (-22°F...+22°F)
- with stand and frame for mounting on surfaces or behind glass (display fridge, vegetable drawer)
- 91 x 13 x 72 mm
- 66 g
- including battery



<b>Order No.</b>	
<b>5020-0542</b>	Digital-freezer-fridge-thermometer

### Digital-freezer-fridge-thermometer

- plastic
- For indoor temperature and fridge, flexible support for wall mounting and table standing, with magnet, measuring range
- -20...+5 °C
- °C/°F-switchable
- Fridge symbol from 4 ...8 °C
- 43 x 68 x 14 mm
- 60 g
- EK-EL
- including battery CR2025 button cell



<b>Order No.</b>	
<b>5014-2028</b>	Digital-freezer-fridge-thermometer



## Two in One - Insertion & Infrared thermometer

Ideal for simple temperature measurements in food control. Universally usable in liquid, powdered and plastic materials.

### DualTEMP Pro

- Temperature measurement optional contact-free with infrared or with probe
- Display of current, highest or lowest temperature during the measurement
- HACCP-LED indicates HI/LO-Level for food
- Waterproof IP 65
- MAX-MIN-HOLD-LOCK-function
- °C/°F-switchable
- LED spot size indicator
- Bag included
- incl. calibration certificate



incl. calibration certificate

#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Meat
- Temperature control
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	Infrared / Probe
Measuring range:	-55...2 50°C
Resolution:	0.2°C
Resolution: (infrared)	-33...0°C ±1.0°C ±0.1/1°C, 0...+65°C ±1.0°C, +65...2 00°C ±1.5%,
Resolution: Thermocouple sensor (Type K - probe)	below -5°C ±1.0°C, -5...6 5°C ±0.5°C, above 6 5°C ±1%
Reproducibility:	±1.0°C or 1%
Response time:	approx. 0,5 seconds (Infrared)
Spectral response:	6...14 µm
Work temperature:	0...5 0°C
Storage temperature:	-20...5 0°C
Emissivity:	0.01 ... 1.00
Optical resolution:	2.5 : 1
Power supply:	2 x 1.5 V AAA
Housing:	plastic, withe
Dimensions:	160 x 38 x 22 mm (L x W x H)
Weight:	380 g

Order No.	
5020-0413	DualTEMP Pro, Infrared-probe thermometer
5990-0071	Spare battery, 1.5 Volt AAA
5020-0551	Pre-drill for frozen goods



### „Küchen-Chef“ 2 in 1 digital meat / oven thermometer

- simultaneous monitoring of the oven and the internal temperature, for the optimal preparation of meat and poultry, can be used for the oven or grill, also ideal for cooking at low temperatures, individual temperature requirements can be programmed, alarm warning when the target temperature is reached, timer and stop watch function, stainless steel probe with 1 m cable, magnet for fixing
- 0...3 00°C (3 2...5 72°F)
- 72 x 24 x 87 mm
- 112 g
- incl. battery 1x 1,5 V AAA,



Order No.	
5014-1503	„Küchen-Chef“ 2 in 1 digital meat / oven thermometer

### Thermometer for roast

- Thermometer for roast with recipes
- Stainless steel
- 0...+110°C
- 120 x 50 mm
- 58 g
- EK



Order No.	
5014-1002	Thermometer for roast

## Infrared - non-contact temperature measurement

Non contact thermometers use infrared technology to measure the surface temperature of materials close up or from a distance. You simply aim, pull the trigger, and read the temperature (response time appr. 0.5 second). Due to the fact you are not touching the surface you are able to measure safely hot, hazardous, or hard-to-reach materials without contaminating or damaging the material's surface.

### Infrared thermometer with laser sighting

#### ScanTemp 410



- Wide measurement range: -33...+500°C
- MAX-HOLD-function
- 11:1 Optic
- With laser and backlight
- °C/°F-switchable
- Belt bag included



#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Meat
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	Infrared
Measuring range:	-33...+500°C
Resolution:	0.1°C
Accuracy:	±2°C or 2%, the larger value applies
Reproducibility:	±1.0°C or 1%
Response time:	approx. 1 second
Spectral response:	6...14 µm
Work temperature:	0...+50°C
Storage temperatur:	-20...+50°C
Laser:	Class 2
Emissivity:	fixed 0,95
Optical resolution:	11 : 1
Power supply:	2x 1.5V AAA
Housing:	plastic
Dimensions:	175 x 39 x 79 mm (L x W x H)
Weight:	300 g

Order No.	
<b>5020-0503</b>	ScanTemp 410, Infrared thermometer
<b>5990-0071</b>	Spare battery, 1.5 Volt AAA

### Infrared thermometer with double-laser sighting

#### ScanTemp 430



- IR- temperature instrument with double laser
- Large display area: Simultaneous display of reading and Max-temperature
- Backlight
- Wide temperature range -60...+550°C
- 12:1 optical resolution
- HOLD-, MAX-function
- Adjustable emissivity
- Hi-Lo Alarm
- IP54 splash water protected
- Belt bag included



#### Applications:

- Food industry
- Incoming inspection
- Cold store
- Meat
- Kitchen / Restaurant
- Bakery
- Catering
- Laboratory

Technical data	
Sensor:	Infrared
Measuring range:	-60...+550°C
Resolution:	0.1°C (above 200°C / 1°C)
Accuracy:	±2°C or 2%, whichever is greater
Reproducibility:	±2.0°C or 2%
Response time:	< 1 second
Spectral response:	6...14 µm
Work temperature:	0...+50°C
Storage temperatur:	-20...+50°C
Laser:	Classe 2
Emissivity:	adjustable 0.10...1.00
Optical resolution:	12 : 1
Battery life:	typical 18 hrs at continuous use
Power supply:	2x 1.5V AAA
Housing:	plastic
Dimensions:	165 x 43 x 77 mm (L x W x H)
Weight:	330 g

Order No.	
<b>5020-0430</b>	ScanTemp 430, Infrared thermometer
<b>5990-0071</b>	Spare battery, 1.5 Volt AAA

### Disposable data logger TempMate-PDF with installed USB port

The innovative single-use data logger TempMate-PDF with USB port is the perfect escort for food or drug during transportation.

#### TempMate-PDF Logger

- ON-Board PDF report generator, no software required
- Built-in USB connector, no hardware required
- Bank-card size
- Quick-start with start-button
- Easy to read LED indication
- IP67 waterproofe
- Food-safe packaging
- Free costumization service
- Incl. certificate



5005-0061



5005-0063



5005-0065



#### Applications:

- control of transport conditions in accordance with HACCP

Technical data	
Measuring range	-30...+70°C
Resolution:	0.1°C
Accuracy:	±0.5°C
Memory:	12,960 measurements
Recording Time:	6 days to 90 days
Shelf Life:	12 months
IP-protection:	IP67
Interface:	Integrated USB
System requirements:	Adobe® Reader
Certification:	Calibration Certificate, CE, RoHS, EN 12830 S,T,C,D,1
Dimensions:	80 mm x 47 mm x 4 mm (L x W x T)
Weight:	10 g

Order No.	
5005-0061 ③	TempMate (6 days), 1 min. intervall Disposable data logger
5005-0063 ③	TempMate (15 days), 2 min. intervall Disposable data logger
5005-0065 ③	TempMate (90 days), 10 min. interval Disposable data logger

Packaging unit 20 pcs. per box

### Temperature data logger

Perfectly designed data logger for the food branch. The robust and water-tight housing is perfect for use in rough condition during transport and storage.

#### MicroLite

- Large memory:
  - 5005-0040:** 8,000 measurements
  - 5005-0041:** 32,000 measurements
- Adjustable interval: 1 sec. ... 1 hour
- Graphic and tabular presentation of measured values
- Export-function for Excel
- IP68 waterproofe
- Free Software (via Internet-Download)
- No cables required reading (direct USB interface)
- Hi-Lo-Alert



IP68  
waterproofe!



#### Applications:

- Monitoring of storage and transport under HACCP conditions
- Monitoring of refrigerators

Technical data	
Measuring range	-25...+80°C
Resolution:	0.1°C
Accuracy:	±0.3°C
Memory:	8,000 or 32,000 measurements
Interface:	USB-Interface 2.0
Connector:	integrated USB-plug
Display:	7 Segment LCD
Battery life:	2 years (interval 1 minute)
Power supply:	1x CR2032
Housing:	plastic (ABS)
Dimensions:	110 x 39 x 26 mm (L x W x H)
Weight:	70 g

Order No.	
5005-0040 ③	Microlite Data logger, 8,000 measurements
5005-0041 ③	Microlite Data logger, 32,000 measurements
5990-0067	Spare battery, 3 Volt CR2032

**LOG32T PDF-Data Logger for temperature**  
Platform-independent data recording in a compact design!

**LOG32T**

- Memory for 60,000 measurements
- Usable without software (default settings, 15 minutes interval preconfigured)
- Automatic PDF creation (no software required)
- Free setup software (to change the configuration) free adjustable recording interval: 30 seconds...24 hours)
- Battery lifetime > 2 years (recording interval >15 minutes)
- Status- and Alarm-LEDs with Buzzer
- Includes wall mount
- IP65 watertight
- Firmware and software updatable Online



*PDF-Logger – usable without software*



Includes wall mount

**Applications:**

- Quality surveillance in laboratories during production in storage areas
- Monitoring conditions in manufacturing facilities
- Maintaining product storage according to HACCP
- Ambient conditions in power plants
- Monitoring of fridges for the pharmaceutical industry

Technical data	
Temperature:	
Measuring range:	-40...+70°C
Resolution:	0.1°C
Accuracy:	±0.5°C (-10...+40°C), otherwise ±1.0°C
Memory:	60,000 measurements
Interface:	USB (integrated)
Power supply:	1x 3.6 Volt Lithium 1/2 AA
Housing:	plastic (ABS)
Dimensions:	100 x 19 x 19 mm (L x W x H)
Weight:	70 g

Order No.	
<b>5005-0170</b>	LOG32T, Temperature Logger,
<b>5020-0375</b>	Spare battery, 3.6 Volt 1/2 AA

**LOG32TH PDF-Data Logger for temperature and humidity**  
Platform-independent data recording in a compact design!

**LOG32TH**

- Memory for 2 x 60,000 measurements
- Usable without software (default settings, 5 minutes interval preconfigured)
- Automatic PDF creation (no software required)
- Free setup software (to change the configuration) free adjustable recording interval: 30 seconds...24 hours)
- Battery lifetime > 2 years (recording interval >15 minutes)
- Status- and Alarm-LEDs with Buzzer
- Includes wall mount
- Firmware and software updatable Online



*PDF-Logger – usable without software*



**Applications:**

- Quality surveillance in laboratories during production in storage areas
- Monitoring conditions in manufacturing facilities
- Maintaining product storage according to HACCP
- Ambient conditions in power plants
- Monitoring of fridges for the pharmaceutical industry

Technical data	
Temperature:	
Measuring range:	-40...+70°C
Resolution:	0.1°C
Accuracy:	±0.5°C (-10...+40°C), otherwise ±1.0°C
Relative Humidity:	
Measuring range:	0 ... 100% rF
Resolution:	0.1%
Accuracy:	±3% (40...60%) ±3.5% (20...40% and 60...80%) , otherwise ±5%
Memory:	2 x 60,000 measurements (Temp. + Humidity)
Interface:	USB (integrated)
Power supply:	1x 3.6 Volt Lithium 1/2 AA
Housing:	plastic (ABS)
Dimensions:	100 x 19 x 19 mm (L x W x H)
Weight:	70 g

Order No.	
<b>5005-0172</b>	LOG32TH, Temperature-humidity Logger,
<b>5020-0375</b>	Spare battery, 3.6 Volt 1/2 AA

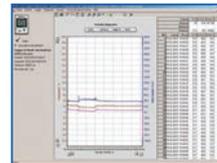
Easy to use data monitoring without costly installation.  
The simple and complete record of your temperature data!



**LOG10** Temperature Logger



- Large display for actual measurements and Max-Min-Avg-measurements
- Low battery indication
- Easy to use software
- Memory for 20,000 measurements
- Visual LED (red) Hi-Lo-Alarm
- Adjustable logging interval from 30 seconds to 24 hours
- IP65-splash water protection
- Easy to change battery
- High accuracy:  $\pm 0.5^{\circ}\text{C}$



Windows Software  
LOG-Graph

Wall Mount

**Applications:**

- Monitoring of inventory, production and transportation conditions in accordance with EN 12830 and HACCP

Technical data	
Temperature:	
Measuring range:	-30...+60°C
Resolution:	0.1°C
Accuracy: ±1 digit	±0.5°C from -20...+50°C ±0.7°C (remaining range)
IP protection:	IP65
Work temperature:	-10...+60°C
Memory:	20,000 measurements
Interface	USB Interface 2.0
Display:	7 segment LCD (2-line)
Power supply:	1 x CR2032 3 V
Housing:	plastic (ABS)
Dimensions:	88 x 55 x 20 mm (L x W x H)
Weight:	95 g

Order No.	
<b>5005-1001</b>	Starter-Set LOG 10 (Data logger + Software+ USB-cable)
<b>5005-0001</b>	Temperature Logger, LOG 10, (without software & data cable)
<b>5090-0001</b>	Windows Software DE-Graph & data cable for LOG 10 / LOG20
<b>5600-0098</b>	Lockable wall mount with magnet for LOG10 / LOG20 / LOG100 / LOG100 CRYO / LOG110
<b>5990-0067</b>	Spare battery, CR2032
<b>5090-0100</b>	Spare USB-cable
<b>5600-0068</b> ③	Calibration certificate (2x temperature) at -18°C and +2°C

Easy to use data monitoring without costly installation.  
The simple and complete record of your temperature and humidity data!

## LOG20 Temperature-humidity Logger



- Large display for actual measurement and MAX/MIN/AVG indication
- Battery status indication
- Easy to use Windows software
- Visual Hi-Lo-Alarm
- Memory for 2 x 20,000 measurements
- Adjustable logging interval from 30 second to 24 hours
- Easy to change battery
- High accuracy:  $\pm 0.5^{\circ}\text{C} / \pm 3\%$



### Applications:

- Monitoring of inventory, production and transportation conditions
- Monitoring of food in the freezer section

Technical data		
	Temperature:	int. relative humidity:
Measuring range:	-30...+60°C	0...99% F
Resolution:	0.1°C	0.1% F
Accuracy: ±1 digit	±0.5°C from -20...+50°C ±0.7°C (remaining range)	±3% F
IP protection:	-	
Work temperature:	-10...+60°C	
Memory:	2 x approx. 20,000 measurements	
Interface:	USB Interface 2.0	
Display:	7 segment LCD (2-line)	
Power supply:	1 x CR2032 3 V	
Housing:	plastic (ABS)	
Dimensions:	88 x 55 x 20 mm (L x W x H)	
Weight:	95 g	

Order No.	
5005-1002	Starter-Set LOG 20 (Data logger + Software+ USB-cable)
5005-0002	Temperature-humidity Logger, LOG 20, (without software & data cable)
5090-0001	Windows Software DE-Graph & data cable for LOG10 / LOG20
5600-0098	Lockable wall mount with magnet for LOG10 / LOG20 / LOG100 / LOG100 CRYO / LOG110
5990-0067	Spare battery, CR2032
5090-0100	Spare USB-cable
5600-0067 <sup>3</sup>	Calibration certificate (3x humidity + 1x temperature) at 30/50/70%rh and +23°C

## LOG100 Temperature Logger



- Memory for 60,000 measurements at 2 parameters
- External temperature probe input
- Visual and acoustic Hi-Lo-Alarm
- Adjustable logging interval from 1 second to 24 hours
- IP65 splash water protection
- Easy to change battery
- High accuracy:  $\pm 0.5^{\circ}\text{C}$

Example LOG 110 with connected external temperature probe (6040-0104)



### Applications:

- Monitoring of inventory, production and transportation conditions in accordance with EN 12830 and HACCP
- Monitoring of food in the freezer section

Technical data		
	Temperature:	external Temperature:
Measuring range:	-30...+70°C	-50...+125°C
Resolution:	0.1°C	
Accuracy: ±1 digit	±0.5°C from -20...+50°C ±0.7°C (remaining range)	±0.5°C from 0...+40°C ±1.0°C (remaining range)
IP protection:	IP65	
Work temperature:	-10...+70°C	
Memory:	2 x approx. 60,000 measurements	
Interface:	USB Interface 2.0	
Display:	7 segment LCD (2-line)	
Power supply:	1 x CR2032 3 V	
Housing:	plastic (ABS)	
Dimensions:	88 x 55 x 20 mm (L x W x H)	
Weight:	95 g	

Order No.	
5005-1100	Starter-Set LOG 100 (Data logger + Software+ USB-cable)
5005-0100	Temperature Logger, LOG 100, (without software & data cable)
5090-0110	Windows Software DE-Graph & data cable for LOG100 / LOG100 CRYO / LOG110 & LOG10 / LOG20
6040-0103	External temperature probe 3 m cable -50...+125°C, 40 x Ø 3mm
6040-0108	External temperature probe 8 m cable -50...+125°C, 40 x Ø 3mm
6040-0104	External Insertion probe, with robust handle temperature resistant to 80°C, 3m Silicone cable, -50...+125°C, 120 x Ø 3,0
5600-0098	Lockable wall mount with magnet
5600-0088	Temperature delay for external temperature probes
5990-0067	Spare battery, CR2032
5090-0100	Spare USB-cable
5600-0068 <sup>3</sup>	Calibration certificate (2x temperature) at -18°C and +2°C

Easy to use data monitoring without costly installation.  
The simple and complete record of your temperature and humidity data!

## LOG100 CRYO Temperature Logger

- Large display for actual measurements and Max-Min-Avg-measurements
- External temperature probe input
- Low battery indication
- Easy to use software
- Memory for 2 x 60,000 measurements
- Visual LED (red) Hi-Lo-Alarm
- Adjustable logging interval from 1 seconds to 24 hours
- Easy to change battery
- High accuracy:  $\pm 0.3^{\circ}\text{C}$



### Applications:

- Monitoring of inventory, production and transportation conditions in accordance with EN 12830 and HACCP
- Monitoring of food in the freezer section

Technical data		
	Temperature:	external Temperature:
Measuring range:	-10...+70°C	-200...+350°C
Resolution:	0.1°C	
Accuracy: ±1 digit	±0.3°C from -10...+50°C ±0.7°C (remaining range)	±0.5°C from -200...+250 °C* ±1.0°C (remaining range) * plus probe inaccuracy
IP protection:	IP65	
Work temperature:	-10...+70°C	
Memory:	2 x ca. 60,000 measurements	
Interface:	USB Interface 2.0	
Display:	7 Segment LCD (2-line)	
Power supply:	1 x CR2032 3 V	
Housing:	plastic (ABS)	
Dimensions:	88 x 55 x 20 mm (L x W x H)	
Weight:	95 g	

Order No.	
<b>5005-1105</b>	Starterset LOG100 CRYO (Data logger + Software+ USB-cable)
<b>5005-0105</b>	Temperaturlogger, LOG100 CRYO, (without software & data cable)
<b>5090-0110</b>	Windows Software DE-Graph & data cable for LOG100 / LOG100 CRYO / LOG110 & LOG10 / LOG20
<b>6040-0113</b>	External temperature probe for LOG 100 CRYO 3 m cable, -50°C...+125°C, 50 x Ø 4mm
<b>6040-0112</b>	External temperature probe for LOG 100 CRYO 3 m cable, -200°C...+250°C, 50 x Ø 4mm
<b>5600-0098</b>	Lockable wall mount with magnet for LOG10 / LOG20 / LOG100 / LOG100 CRYO / LOG110
<b>5600-0088</b>	Temperature delay for external temperature probes
<b>5990-0067</b>	Spare battery, CR2032
<b>5090-0100</b>	Spare USB-cable
<b>5600-0068</b> ③	Calibration certificate (2x temperature) at -18°C and +2°C

## LOG110 Temperature-humidity Logger

- Memory for 60,000 measurements at 3 parameters
- External temperature probe input
- Visual and acoustic Hi-Lo-Alarm
- Adjustable logging interval from 1 second to 24 hours
- Easy to change battery
- High accuracy:  $\pm 0.5^{\circ}\text{C}$  /  $\pm 3\%$



## LOG110-EXF

- with external humidity-temperature sensor (fix connection 2 meter cable)



Technical data	int. temperature:	ext. temperature:	int. relative humidity
Measuring range:	-30...+70°C	-50...+125°C	0...99% F
Resolution:	0.1°C		±0.1% F
Accuracy: ±1 digit	±0.5°C from -20...+50°C ±0.7°C (remaining range)	±0.5°C from 0...+40°C ±1.0°C (remaining range)	±3% F
Work temperature:	-10...+70°C		
Memory:	3 x approx. 60,000 measurements		
Interface	USB Interface 2.0		
Display:	7 segment LCD (2-line)		
Power supply:	1 x CR2032 3 V		
Housing:	plastic (ABS)		
Dimensions:	88 x 55 x 20 mm (L x W x H)		
Weight:	95 g		

Order No.	
<b>5005-1110</b>	Starter-Set LOG 110 (Data logger + Software+ USB-cable)
<b>5005-0110</b>	Data logger for temperature and humidity, LOG 110, (without software & data cable)
<b>5005-0111</b>	Data logger for temperature and humidity, LOG 110-EXF with external humidity-temperature probe (2m cable)
<b>5090-0110</b>	Windows Software DE-Graph & data cable for LOG 100/110
<b>6040-0103</b>	External temperature probe 3 m cable -50...+125°C, 40 x Ø 3mm
<b>6040-0108</b>	External temperature probe 8 m cable -50...+125°C, 40 x Ø 3mm
<b>6040-0104</b>	External Insertion probe, with robust handle temperature resistant to 80°C, 3m Silicone cable, -50...+125°C, 120 x Ø 3,0
<b>5600-0098</b>	Lockable wall mount with magnet for LOG10 / LOG20 / LOG100 / LOG100 CRYO / LOG110
<b>5600-0088</b>	Temperature delay for external temperature probes
<b>5990-0067</b>	Spare battery, CR2032
<b>5090-0100</b>	Spare USB-cable
<b>5600-0067</b> ③	Calibration certificate (3x humidity + 1x temperature) at 30/50/70%rH and +23°C
<b>5600-0068</b> ③	Calibration certificate (2x temperature) at -18°C and +2°C

For temperature monitoring during sterilization, pasteurization and other applications up to 140°C.

The ideal data logger for monitoring and recording temperature data for food, pharmaceutical and laboratory applications. To determine the F0-, Z- and N-value of food.

**SterilDisk / SterilDisk 10 / SterilDisk 20 / SterilDisk 50 / SterilDisk 100 / SterilDisk 150**

- Wide temperature range up to 140°C
- Water- and pressure-resistant to 10 bar
- Made of food-safe stainless steel AISI316L
- Large memory for 20,200 measurements
- Adjustable interval: 1sec
- High accuracy: ± 0.2°C
- Easy to change battery
- Optional with validated software CFR 21 part 11
- Export-function for Excel
- Automatic calculation of F0, Z and N-values possible
- Several curves can be displayed in one graph simultaneously (TS-Software)



5005-0800



5005-0801  
SterilDisk10 Datenlogger mit  
Eintauchsonde 10mm



5090-0800



5005-0896

**Applications:**

- food, pharmaceutical and laboratory areas

Technical data	SterilDisk 5005-0800	SterilDisk 10 - 5005-0801 SterilDisk 20 - 5005-0802 SterilDisk 50 - 5005-0803 SterilDisk 100 - 5005-0804 SterilDisk 150 - 5005-0805
Temperature:		
Measuring range:		-20...+140°C up to 10 bar
Resolution:		0.01°C
Accuracy:		±0.2°C
IP protection:		IP68
Memory:		20.200 measurements
Interface:		Disk Interface
Battery life:		approximately 1,400,000 measurements at 1-second clock Battery user replaceable
Housing:		Food safe AISI316L
Dimensions:	18 x Ø 36 mm	18 + 10 -150 x Ø 36 mm
Weight:	appr. 80 g	appr. 85 g
Probe:		Immersion probe 10/20/50/100/150 mm

Order No.	
5005-0800 ③	SterilDisk Data logger
5005-0801 ③	SterilDisk10 Data logger with immersion probe 10mm
5005-0802 ③	SterilDisk20 Data logger with immersion probe 20mm
5005-0803 ③	SterilDisk50 Data logger with immersion probe 50mm
5005-0804 ③	SterilDisk100 Data logger with immersion probe 100mm
5005-0805 ③	SterilDisk150 Data logger with immersion probe 150mm
5090-0800 ③	SPD USB-Kit Software and disk interface with USB port for connection to the PC for SterilDisk Data logger
5090-0801 ③	TS-Manager Software according to CFR21 Part 11 Incl. USB-Keycode with temperature and pressure sensor (Article 5090-0800 required)
5990-0881 ③	Battery replacement set for SterilDisk
5005-0896 ③	Complete Set Mounting system for SterilDisk data logger and other instruments for cans, bottles, caps and other reservoirs. The set includes: 1 x riveting tool, 20 x M5 rivets for SterilDisk system with probe of 4.0 mm diameter and minimum 50 mm length, 20 x M8 rivets for SterilDisk system with probe of 3.0 mm diameter and minimum 30 mm length, 1 x clamp connection to attach the sensor to the required depth.

For temperature monitoring during sterilization, pasteurization and other applications up to 140°C.

The ideal data logger for monitoring and recording temperature data for food, pharmaceutical and laboratory applications. To determine the F0-, Z- and N-value of food.

## SterilMicro S / L & XL Datenlogger bis 140°C

- Wide temperature range up to 140°C
- S-Micro S is the smallest logger for autoclaves only 14 mm long and a diameter of 17 mm
- Water- and pressure-resistant up to 5 bar
- Made of food-safe stainless steel AISI316L
- Large memory for 20,200 measurements
- Adjustable interval: 1 sec
- High accuracy:  $\pm 0.1^\circ\text{C}$
- Optional with validated software CFR 21 part 11
- Export-function for Excel
- Automatic calculation of F0, Z and N-values possible with validated Software also A80, A90, PU, Overkilling possible
- Several curves can be displayed in one graph simultaneously (TS-Software)

*S-Micro S is the smallest logger up to 140°C*



5090-0800



5005-0820



5005-0825



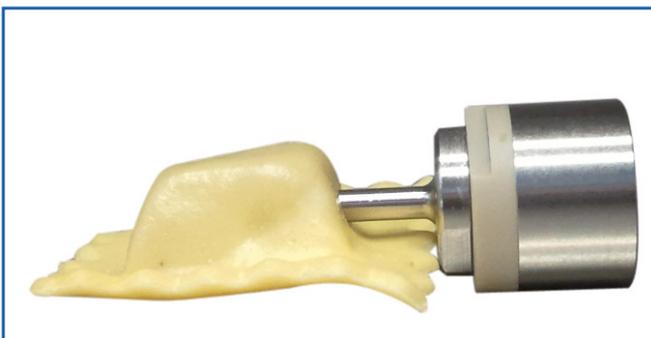
5005-0830



5005-0896



5005-0820



5005-0820

### Applications:

- food, pharmaceutical and laboratory areas

Technical data	SterilMicro S Data logger 5005-0820 - 0824	SterilMicro L Data logger 5005-0825 - 0829	SterilMicro XL Data logger 5005-0830 - 0834
Temperature:			
Measuringrange:	0...+140°C up to 5 bar pressure-tight		
Resolution:	0.01°C		
Accuracy:	$\pm 0.1^\circ\text{C}$		
IP protection:	IP68		
Memory:	20,200 Observations		
Interface:	Disk Interface NS		
Battery life:	Measured in a 1-second intervals at 25°C. for about 6 ½ days	Measured in a 1-second intervals at 25°C for about 115 days	Measured in a 1-second intervals at 25°C for about 195 days
Housing:	food-safe AISI316L		
Dimensions:	14 x Ø 17 mm	39 x Ø 17 mm	64 x Ø 17 mm
Weight:	ca. 35g	ca. 50g	ca. 60g
Probe:	with Insertion probe 20/50/100/150/OD mm x Ø 3,0 mm (OD = other lengths of 11 mm to 175 mm available)		

Order No.	
5005-0820 ③	SterilMicro S 20 Data logger with Insertion probe 20 mm
5005-0821 ③	SterilMicro S 50 Data logger with Insertion probe 50 mm
5005-0822 ③	SterilMicro S 100 Data logger with Insertion probe 100 mm
5005-0823 ③	SterilMicro S 150 Data logger with Insertion probe 150 mm
5005-0824 ③	SterilMicro S OD Data logger with Insertion probe (lengths of 11 mm to 175 mm available)
5005-0825 ③	SterilMicro L 20 Data logger with Insertion probe 20 mm
5005-0826 ③	SterilMicro L 50 Data logger with Insertion probe 50 mm
5005-0827 ③	SterilMicro L 100 Data logger with Insertion probe 100 mm
5005-0828 ③	SterilMicro L 150 Data logger with Insertion probe 150 mm
5005-0829 ③	SterilMicro L OD Data logger with Insertion probe (lengths of 11 mm to 175 mm available)
5005-0830 ③	SterilMicro XL 20 Data logger with Insertion probe 20 mm
5005-0831 ③	SterilMicro XL 50 Data logger with Insertion probe 50 mm
5005-0832 ③	SterilMicro XL 100 Data logger with Insertion probe 100 mm
5005-0833 ③	SterilMicro XL 150 Data logger with Insertion probe 150 mm
5005-0834 ③	SterilMicro XL OD Data logger with Insertion probe (lengths of 11 mm to 175 mm available)
5090-0800 ③	SPD USB-Kit Software and disk interface with USB port for connection to the PC for SterilDisk Data logger
5090-0801 ③	SPD USB-Kit Software and disk interface with USB port for connection to the PC for SterilDisk Data logger
5990-0882 ③	Battery replacement set for SterilMicro Standard 20 Data logger
5990-0883 ③	Battery replacement set for SterilMicro L Data logger
5990-0884 ③	Battery replacement set for SterilMicro XL Data logger
5990-0894 ③	Opening tool for SterilMicro data logger for battery replacement
5005-0896 ③	Complete Set Mounting system for SterilDisk Data logger and other instruments for cans, bottles, caps and other reservoirs. The set includes: 1 x riveting tool, 20 x M5 rivets for SterilDisk system with probe of 4.0 mm diameter and minimum 50 mm length, 20 x M8 rivets for SterilDisk system with probe of 3.0 mm diameter and minimum 30 mm length, 1 x clamp connection to attach the sensor to the required depth.

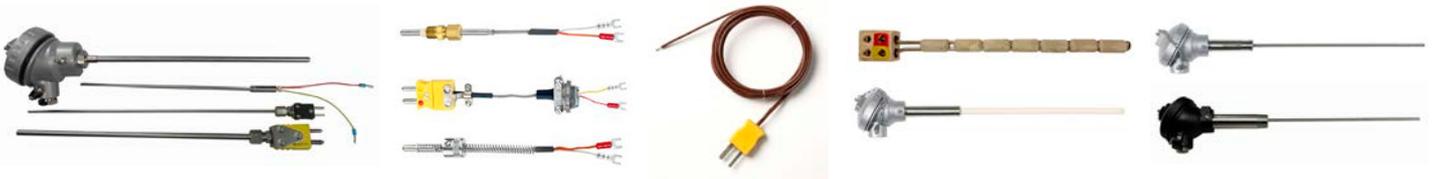


## THERMOCOUPLES

Temperature Controls operate a full workshop in Sydney manufacturing thermocouples for Plastic, Petrochemical, Steel, Furnace & Metal processing industries.

- Mims Thermocouples 0.5 mm to 12.7 mm dia.
- Multipoint Thermocouples
- High Temperature Ceramics / Platinum Wire

Temperature Controls have IECEx Certificate of Conformance for Ex d Flameproof, Ex e Increased Safety and Ex tD Dust atmosphere use.



## RTD SENSORS PT 100 Ω PT 1000 Ω

A complete range of RTD sensors for use from  $-200^{\circ}\text{C}$  up to  $+600^{\circ}\text{C}$ , vibration resistant and rugged depending upon the configuration. High Accuracy 3 or 4 wire sensors in Class A or 1/10th DIN tolerances custom made to order.

Applications

- Electric Motor Windings
- Food / Beverage Triclover
- Environmental monitoring
- Pharmaceutical
- Autoclave



## THERMOWELLS

Using CNC lathes and Gun drilling machinery Temperature Controls manufacture barstock flanged, weld-in & screwed thermowells as well as protection tubes for extreme temperature and corrosive industrial applications.

Quality Assurance

- Welding Procedures
- Wake Frequency Calculations
- Pressure Testing
- Weld X ray

Materials Available

- Stainless Steel 316 / 304 / Duplex
- Inconel 600/601
- Hastelloy
- Titanium



# THERMOCOUPLE CABLE EXTENSION & COMPENSATING

## THERMOCOUPLE COLOUR CODE CONNECTION CHART

EXTENSION/COMPENSATING CABLE COLOURS					THERMOCOUPLE MATERIALS	
CODE	AMERICAN TO ANSI /MC 96.1	INTERNATIONAL IEC 584-3	GERMAN TO DIN 43714	JAPAN JIS C 1610 (1995)	POSITIVE CONDUCTOR	NEGATIVE CONDUCTOR
<b>K</b>					<b>NICKEL CHROMIUM</b> Also Known as Chromel KP or Ni-Cr	<b>NICKEL ALUMINIUM</b> Also known as Alumel, KN or Ni-Al (Magnetic)
<b>V</b>					<b>COPPER</b>	<b>COPPER-NICKEL</b>  Also known as Constantan
<b>T</b>					<b>COPPER</b>	<b>COPPER-NICKEL</b>  Also known as Constantan
<b>J</b>					<b>IRON</b>  Also known as Fe (Magnetic)	<b>COPPER-NICKEL</b>  Also known as Constantan
<b>E</b>					<b>NICKEL CHROMIUM</b> Also Known as Chromel KP or Ni-Cr	<b>COPPER-NICKEL</b>  Also known as Constantan
<b>N</b>					<b>NICKEL-CHROMIUM- SILICON</b> Also known as Nicrosil	<b>NICKEL-CHROMIUM- MAGNESIUM</b> Also known as Nisil (Lightly Magnetic)
<b>R</b>					<b>PLATINUM / 13% RHODIUM</b>	<b>PLATINUM</b>
<b>S</b>					<b>PLATINUM / 10% RHODIUM</b>	<b>PLATINUM</b>
<b>B</b>					<b>PLATINUM / 30% RHODIUM</b>	<b>PLATINUM / 6% RHODIUM</b>

With reference to the ANSI MC 1=96.1 colour coding it is noted that a brown overall sheath colour replacing that shown denotes the incorporation of thermocouple grade conductors where relevant.

Download a copy from our web site : Reference No . **SD 1514**

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