

PCE-IR 100 (HACCP)

Infrared / Contact Thermometer

- temperature measurement with and without contact, combined in a single device
- suitable for use in the food industry
- short response time / LED display
- min. / max. value hold function
- easy to clean due to high-grade protection IP 65



**TOP
seller**

TECHNICAL SPECIFICATIONS

IR range / resolution	-33 ... +220 °C / 0.1 °C
Accuracy	-33 °C ... 0 °C: ± 1.0 °C + 0.1 °C 0 °C ... +65 °C: ± 1.0 °C +65 °C ... +220 °C: ± 1.5 % of rdg.
Ratio / resp. time	3:1 / < 500 ms
Emissivity	adjustable 0.10 ... 1.00
Contact range./resol.	-55 ... +330 °C / 0.1 °C
Accuracy	-55 °C ... -5 °C: ± 1.0 °C -5 °C ... +65 °C: ± 0.5 °C +65 °C ... +330 °C: ± 1.0 % of rdg.
Power supply	2 x 1.5 V AAA batteries
Dimensions / weight	190 x 38 x 22 mm / 98 g


INCLUDES

Food thermometer, batteries, instruction manual

ITEM NO.	ITEM
K-PCE-IR 100	food thermometer

OPTIONAL ACCESSORIES

K-CAL-IR100	ISO calibration certificate
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 Only the IR sensor can be calibrated, not the probe)

PCE-TD 60

USB Temperature Data Logger

- internal sensor / works with lithium battery
- integrated display for up-to-date values
- internal memory of up to 32000 values
- sampling rates of between 1 s and 6 hrs
- timing of data logging can be pre-set
- programmable optical alarm



TECHNICAL SPECIFICATIONS

Measurement range	-40°C ... +85 °C
Accuracy	± 0.6 °C (-20 ... +50 °C), ± 1.2 °C rest of ranger
Memory	32000 sets of data
Display	LCD 3 digits
Sampling rate	1 s ... 6 h
LED:	flashing green-red: measuring flashing red: below or above measurement range
Power supply	lithium battery 3.6 V, 1/2 AA
Operating conditions	0 ... +50 °C, < 80 % RH
Dimensions	135 x 28 mm, with cover cap

INCLUDES

USB data logger, battery, box, carrying strap, instruction manual

ITEM NO.	ITEM
K-PCE-TD 60	USB temperature data logger



PCE-HT 71N

USB Climate Meter for RH and Temp.

- 32000 values memory capacity / USB interface
- analysis software / dew point calculator
- adjustable alarms, real-time clock with date
- adjustable sampling rates (2 s - 24 hrs)
- long-life lithium battery
- LED status indication (including alarm)



TECHNICAL SPECIFICATIONS

Meas. range	0 ... 100 % RH / -40 ... +70 °C
Resolution	0.1 % RH / 0.1 °C
Accuracy	±3 % RH / ±1 °C
Memory	32000 readings (16000 each)
Sampling rate	adjustable 2 s, 5 s, 10 s ... 24 h
Start / stop / date	programmable (alarm as well)
Display	2 LED (logging / alarm)
Interface	USB
Dew point	can be calculated (accuracy ±2 °C)
Power supply	3.6 V lithium battery
Operating conditions	-40 ... +70 °C / 0 ... 100 % RH
Dimensions/weight	102 x 30 mm / 25 g

INCLUDES

Data logger, wall mount, battery, software, instruction manual

ITEM NO.	ITEM
K-PCE-HT 71N	data logger



Contact Thermometer

PCE-T 390

4-Channel Thermometer with SD Card

- 4 channels for K and J type, 2 channels for Pt100
- real-time memory due to SD memory card (1 ... 16GB)
- LCD 4 digits (backlight)
- Min / Max values / Automatic Power Off



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TECHNICAL SPECIFICATIONS

Range K:	-200 ... +1370 °C / Pt100: -200 ... +1562 °C
Resol. K:	0.1°C (-200 ... +1000 °C) / 1°C (>1000 °C)
Pt100:	0.1°C (-200 ... +850 °C) / 1°C (>850 °C)
Accuracy K:	± 0.5 % of reading + 1 °C
Pt100:	± 0.4 % of reading + 1 °C
Inputs	4 x K type / 2 x Pt100
Sampling rate	1 ... 3599 s (adjustable)
Memory	flexible via SD card up to 16 GB
Display	LCD 4 digits / 52 x 38 mm
Power supply	6 x 1.5 V AAA or mains adaptor
Operating conditions	0 ... +50 °C, <80 % RH
Dimensions	174 x 68 x 42 mm
Weight	310 g

INCLUDES

Thermometer, 2 x K type probes, batteries, SD card, SD card reader, instruction manual

ITEM NO.	ITEM
K-PCE-T390	4-channel thermometer

OPTIONAL ACCESSORIES

K-NET-LUT	mains adaptor
K-CAL-PCE-T390	ISO calibration certificate

⚠ For more probes see page 11

PCE-T 1200

12-Channel Data Logger

- LC display 4.5" (82 x 61 mm)
- timer to adjust the logging interval
- Min / Max alarm for each input
- Min / Max / Hold / integrated calendar
- 2 GB SD card / cards of up to 16 GB possible
- Auto Power Off / Auto Temperature Compensation



PCE



TECHNICAL SPECIFICATIONS

Sensor	Resol.	Meas. range	Accuracy
K type	0.1 °C	-50.1 ... -100 °C	±0.4 % + 1 °C
	0.1 °C	-50 ... +999.9 °C	±0.4 % + 0.5 °C
	1 °C	+1000...+1300 °C	±0.4 % + 1 °C
J type	0.1 °C	-50.1 ... -100 °C	±0.4 % + 1 °C
	0.1 °C	-50 ... +999.9 °C	±0.4 % + 0.5 °C
	1 °C	+1000...+1150 °C	±0.4 % + 1 °C
T / E type	0.1 °C	-50.1 ... -100 °C	±0.4 % + 1 °C
T type	0.1 °C	-50 ... +400 °C	±0.4 % + 1 °C
E type	0.1 °C	-50 ... +900 °C	±0.4 % + 0.5 °C
R type	1 °C	0 ... +1700 °C	±0.5 % + 3 °C
S type	1 °C	0 ... +1500 °C	±0.5 % + 3 °C
Operating cond.	0 °C ... +50 °C / <85 % RH		
Dimens. / weight	225 x 125 x 64 mm / 827 g		

INCLUDES

12-channel data logger, 2 K type wire sensors, batteries, SD card, carrying case, Instruction manual

ITEM NO.	ITEM
K-PCE-T 1200	PCE-T 1200 data logger

OPTIONAL ACCESSORIES

K-CAL PCE-T1200	4-channel calibration certificate
K-NET-LUT	mains adaptor

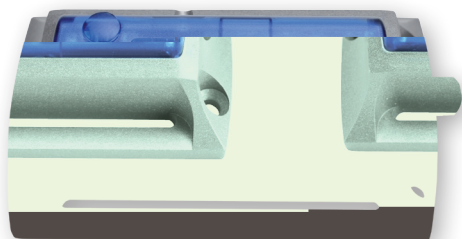
⚠ For more probes see page 11



MSR145 Series

High-Quality Mini Long-Term Climate Meter for Temperature, RH, Air Pressure, Light, Acceleration in Grammes

- for temperature, relative humidity with integrated temperature, pressure (e. g. altimeter, water column, barometer), light and 3-axes acceleration
- real-time clock with date / adjustable sampling rate / memory capacity for 2.000.000 values, optional micro SD card für 1 billion values
- evaluation software
- marker function or start / stop via internal key
- Li-Ion rechargeable battery, status indication via LEDs
- norm: EU directive RoHS / WEEE
- **external sensors available in our online shop**



TECHNICAL SPECIFICATIONS (INTEGR. SENSORS)

Temperature

Meas. range	-20 ... +65 °C
Accuracy	±0.5 °C (at -10 ... +65 °C)
	±2 °C (at -55 ... +125 °C)
Sampling rate	1/s ... every 12 h

Relative hum.

	with integr. temperature -20 ... +65 °C
Meas. range	0 ... 100 % RH
Accuracy	±2 % RH (10 ... 85 %, 0 ... +40 °C)
	±4 % RH (85 ... 95 %, 0 ... +40 °C)
Sampling rate	1/s ... 12 every h

Air pressure

	with integr. temperature -20 ... +65 °C
Meas. range	0 ... 2.000 mbar absolute
	0 ... 14 bar absolute (external)
Accuracy	±2.5 mbar (at 750 ... 1.100 mbar abs., +25 °C)
	±50 mbar (at 1 ... 10 bar abs., +25 °C)
Sampling rate	10/s ... every 12 h

3-axes acceler.

	with integr. temp. -20 ... +65 °C
Meas. range	±15 g (position)
Accuracy	±0.15 g (+25 °C)
Sampling rate	50/s ... every 12 h

Light

Meas. range	0 ... 65.000 lx max. sensitivity of 500 nm
Sampling rate	1/s ... every 12 h

The following sensors are only available as ext. Thermocouple connection for K type (without sensor) not available with temperature sensor

Meas. range	-250 ... +1.200 °C (1 or 4 times)
Sampling rate	1/s ... every 12 h

Liquid pressure

	with integr. temp. -20 ... +85 °C
Meas. range	0 ... 3.000 mbar absolute
	0 ... 30 bar absolute
Accuracy	±30 mbar
	±300 mbar
Sampling rate	20/s ... every 12 h
Materials in contact with media:	- stainless steel AISI 316L (DIN 1.4404 / 1.4435)
	- o-rings: Viton® 70° Sh

Analoge inputs

	2 or 4 inputs, 0 ... 3.0 V, 12 Bit resolution; further input config. available in our online shop
Sampling rate	50/s ... every 12 h

GENERAL DATA

Memory	2.000.000 readings, with optional SD card, extendable to 1 billion
Interface	USB
Software	setup-/ reader-/ viewer-/ online software (Windows 2000 / XP / Vista / 7)
LEDs	blue: data recording, red: alarm, yellow: battery charging level indication
Protection cl.	standard IP 60 / waterproof IP 67
Power supply	lithium polymer rechargeable battery 260 mAh or 800 mAh
	-20 ... +65 °C / 10 ... 95 % RF
Dimensions	width: 52 ... 72 mm; height: 14 ... 23 mm; depth: 18 ... 39 mm (dep. on model)
Weight	approx. 18 ... 64 g (dep. on model)

INCLUDES

Data logger, software, USB cable, manual

ITEM NO. ITEM

different models can be configured in our online shop
www.pce-instrument.com/english

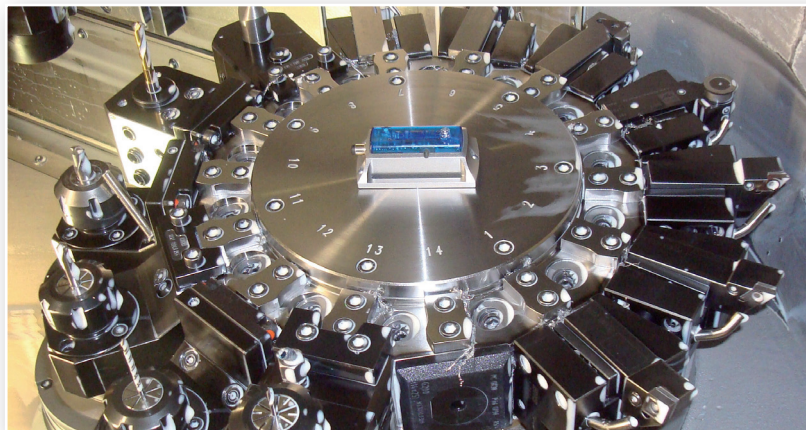
OPTIONAL ACCESSORIES

K-B47002 charging station for up to 7 loggers

MSR165 Series

3-Axis Acceleration Sensor for Long-Term Recording (Additional Sensors Optionally Available)

- 3-axis acceleration with lithium polymer rechargeable battery for extra-long life
- sensors for temperature, relative humidity, light and absolute pressure are available optionally
- marker function or start / stop via internal key
- USB interface for PC / software for data analysis via PC or laptop are included in the delivery content
- adjustable real-time clock with date / adjustable sampling rate
- norms: EU RoHS / WEEE
- **the datalogger can be configured in our online shop:**
www.pce-instruments.com/english



TECHNICAL SPECIFICATIONS (INTEGR. SENSORS)

3-axis acceleration (13 bit resolution)

With integr. temp. -20 ... +65 °C
 Meas. range ±15 g
 Accuracy ±0.15 g (at +25 °C)
 Sampling rate up to 1600 /s (±15 %)

Temperature

Meas. range -20 ... +65 °C
 Accuracy ±0.5 °C (at -10 ... +65 °C)
 ±2 °C (at -55 ... +125 °C)
 Sampling rate 1/s ... every 12 h

Relative humidity

With integr. temp. -20 ... +65 °C
 Meas. range 0 ... 100 % RH
 Accuracy ±2 % RH (at 10 ... 85 %, 0 ... +40 °C)
 ±4 % RH (at 85 ... 95 %, 0 ... +40 °C)
 Sampling rate 1/s ... every 12 h

Air pressure

With integr. temp. -20 ... +65 °C
 Meas. range 0 ... 2000 mbar absolute
 0 ... 14 bar absolute
 Accuracy ±2.5 mbar (at 750 ... 1100 mbar abs., +25 °C)
 ±50 mbar (1 ... 10 bar abs., +25 °C)
 Sampling rate 10/s ... every 12 h

Light

Meas. range 0 ... 65000
 Max. sensitivity 500 nm
 Sampling rate 1/s ... every 12 h

Analogue inputs

4 inputs, 0 ... 3.0 V, 12 bit resolution; other input configurations available in online shop; light sensor not available, max. 2 ext. sensors possible
 Interval 50/s ... every 12 h

General details

Memory 2,000,000 values, with optional SD card increase to 1,000,000,000
 Switch markings and start / stop of measurement
 Interface USB
 Software setup / reader / viewer / online software (Windows 2000/XP/Vista/7)
 LEDs blue: data logging; red: alarm; yellow: battery level indication
 Power supply lith. poly. rechargeable batt. 800 mAh
 Operating cond. -20 ... +65 °C / 10 ... 95 % RH
 Dimens. / weight 39 x 23 x 72 mm / approx. 69 g
 Protection class waterproof IP 67

INCLUDES

3-axis acceleration data logger, software, interface cable, instruction manual

ITEM NO. ITEM

different models can be configured in online shop
www.pce-instruments.com/english

⚠ Note: the optional accessories must be specified when ordering the 3-axis data logger as the device must be configured according to your requirements directly at the factory.

