INFRARED THERMOMETER

PCE-IR 100-ICA



- **Ideal for use in food processing, food inspection, food safety, food quality**
- **control, food preparation and food catering applications**
- **Aids in compliance with the hazard analysis and critical control points**
- **(HACCP) system**
- **Sensor probe folds into unit for convenient storage**
- **Accurately covers a wide measurement range**
- **Quick response time**
- **Minimum, maximum and lock functions**
- **Enables continuous measurement over a period of time**
- **IP 65 ingress protection rating allows hygienic cleaning**
- **Easy to use: LEDs indicate temperatures below 4°C / 39.2°F, temperatures**

Digital Thermometer is both an infrared non-contact thermometer for measuring surface temperature and a contact thermometer with probe for measuring core temperature of food. This food-grade thermometer allows for quick and easy testing of food surface temperatures without contamination using the infrared sensor, while also offering the possibility of testing food internal temperatures using the food-quality sensor probe, making the thermometer a useful tool for complying with the hazard analysis and critical control points (HACCP) system.

The HACCP system was established to ensure food safety and consistent product quality. Food cannot be put into circulation if it doesn't meet strict safety standards like those in the HACCP. Temperature checks should be made frequently throughout the food supply chain. It is particularly important to test perishable food temperature during transport, as food products can travel significant distances to reach their final destination.

Specification

Type K temperature	
Measuring range	-55 ... -5 °C
Resolution	0,2 °C
Accuracy	±1°C
Type K temperature	
Measuring range	-5 ... +65 °C
Resolution	0,2 °C
Accuracy	±0.5°C
Type K temperature	
Measuring range	65 ... 330 °C
Resolution	0,2 °C
Accuracy	±1°C
Infrared temperature	
Measuring range	-33 ... 0 °C
Resolution	0,2 °C
Accuracy	±1°C + 0.1°C
Infrared temperature	
Measuring range	0 ... 65 °C
Resolution	0,2 °C
Accuracy	±1°C
Infrared temperature	
Measuring range	65 ... 200 °C
Resolution	0,2 °C
Accuracy	±1.5% f.s.

General technical data	
Measuring functions	MAX, MIN, HOLD, LOCK
Units	°C, °F
Display size	1,2 Inch
Sensor	Thermocouple (type K)
Response time	500 mS
Operating time	40 h
Measurement Spot	2.5:1
Light source	LED
Reproducibility	Within the accuracy of the device
Emissivity Level from/to	0.1 ... 1
Emissivity	0,95
Spectral range	8 ... 14 µm
Dimensions	Sensor: - Diameter: 3.2 mm / 0.1 in - Length: 113 mm / 4.4 in
Menu language	English (US), English (GB)
Protection class (device)	IP65
Battery/battery	2 x 1,5 V AAA Battery (1,5V) , Alkali-Manganese
Battery capacity	1200 mAh
Operating conditions	0 ... 50 °C , 0 ... 80 %RH
Storage conditions	-20 ... 50 °C , 0 ... 80 %RH
Dimensions (L x W x H)	160 x 40 x 22 mm
Weight	80 g