



## Thermometer for food inspection

### Model Therma Waterproof

#### Description

Therma Waterproof with two thermocouple sensors are calibrated by an accredited temperature laboratory. The sensors are one with cannula tip for penetration of food, the other a wire sensor for measuring surface temperature, e.g. by positioning between packages. Both sensors are designed small to give quick response time.

#### Accessories included

The equipment is delivered in a carrying case including a brief manual for measuring food temperature.

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#### Article number, complete kit: 11-10655

Article number	Description	Antal
11-30503	Therma Waterproof (see the next page)	1
11-00307	Sensor with cannula tip. Tip diameter 1.6 x 100 mm. 1.5 m FEP insulated wire.	1
11-00320	Wire sensor. 1,5 m FEP insulated wire.	1

Specification of indicator, see the next page.

Both sensors are designed small to give quick response time.

#### Accuracy

Correctly performed measurements in the field should generate a measurement uncertainty less than  $\pm 0.5$  °C. The condition for this is regular calibration of the equipment at an accredited temperature laboratory.

#### Accredited calibration

Pentronic offers accredited calibration of sensors connected to the indicator in the following temperatures: -18,  $\pm 0$ , 8 and 60 °C which are crucial temperatures for storing food. This offer includes reduced pricing.



11-50065



11-30503

## Handheld thermocouple indicator type K, 1 channel

### Model Therma Waterproof

Therma Waterproof is a one-channel handheld temperature indicator which is submersible and can be flushed directly under the water tap. Protective class is IP66/67. The input signal can be biased within  $\pm 2.0$  °C. The display is provided with 15 mm tall figures and can be back lit or not.

The indicator is intended for thermocouple type K with miniature sized male connector.

Therma Waterproof is delivered with a soft case sized 300 x 110 x 40 mm.

Sensors are optional. There is a collection in Pentronic's web site. The construction of the sensor may limit the practical measuring range.

Another option is a protective silicon rubber boot.

#### Specifikation *Therma Waterproof* without temperature sensor

Input	Thermocouple type K with miniature male connector
Measuring ranges	-100 to +1370 °C
Resolution	0.1 °C to 300 °C, else 1 °C
Zero adjustment	$\pm 2.0$ °C in steps of 0.1 °C
Accuracy at 23 °C	$\pm 0.4$ °C $\pm 0.1$ % reading
Thermal drift including cold junction (CJC)	< 0.02 °C/°C
Sampling rate	2 times a second
Ambient temperature while measuring	-20 to +50 °C
Power supply	3 pcs AAA-batteries
Operational time in 25 °C	> 10 000 h with no back light activated
Automatic shut off	After 10 min. operation, can be inhibited
Display	15 mm height of figures
Dimensions	141 x 71 x 32 mm
Weight	Ca 220 g
<b>Ordering</b>	<b>Article number</b>
Therma Differential, indicator with soft case excl. temperature sensor	11-30502
Protective boot with support	11-50065