

# TEMPERATURE HAND-HELD

## THERMOPORT 20

Hand-held thermometers of the THERMOPORT series set new standards because of the combination of the latest technology and design.

Excellent readability of the very large and illuminated display, the simple thumbwheel operation and the very robust case also allow usage in tough industrial environments.

Two measuring channels, one to connect a PT100 probe and the other to connect a thermocouple probe (E/K/J/N/R/S/T type), provide measurement between -200...1200°C (-328...2192°F).



### Features

- PT100 + thermocouple connectors
- Large, illuminated display
- HOLD / MIN / MAX / AVG readout
- Auto power off
- Real time clock
- °C / °F selectable
- Recalibration by user

### Technical Data THERMOPORT 20

#### Measuring Values

	Channel 1	Channel 2
Sensor type	PT100 (4-wires)	Thermocouple
Measuring range	-200...500°C (-328...932°F)	-200...1200°C (-328...2192°F)
Accuracy electronics	± 0.1°C (-100...200°C) otherwise ± 0.2°C ± 0.18°F (-148...392°F) otherwise ± 0.36°F	± (0.5°C/0.9°F ± 0.2% of AVG)
Resolution	± 0.01°C (-100...200°C) otherwise ± 0.1°C ± 0.018°F (-148...392°F) otherwise ± 0.18°F	0.1°C (0.18°F)

#### General

Supply voltage	4 x 1.5V AA alkali-manganese battery		
Battery lifetime	typ. > 500h		
Working temperature range	0...50°C (32...122°F)		
CE compatibility according	EN50081-2	EN50082-2	EN55011
	EN61000-4-2	EN61000-4-3	
Housing / protection class	ABS / IP40		
Dimensions (HxWxD)	145 x 85 x 37 mm (5.7 x 3.3 x 1.5")		
Weight	Approx. 400g (1lbs)		
Display	LC display, 90 x 50mm (3.5 x 2"), illuminated		



### Ordering Guide THERMOPORT 20

Model
Portable thermometer without sensing probe (THERMOPORT 20)

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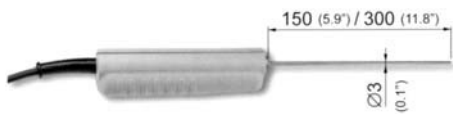
## Temperature Probes:

### PT100 cut-in probe, short



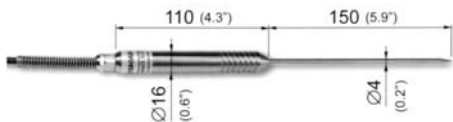
Application	Solid, liquid and powdery media
Measuring range	-40...400°C (-40...752°F) <sup>1)</sup>
Type of sensing probe	PT100 class B in a stainless steel protection tube
Response time $\tau_{90}$	10 sec.
Cable length	approx. 1m (3.3ft), PUR-cable and handgrip applicable up to 80°C (176°F)
Order code	<b>HA040101</b>

### Accurate PT100 immersion probe, short and long version



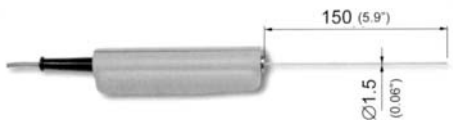
Application	Gaseous, liquid and powdery media
Measuring range	-40...400°C (-40...752°F) <sup>1)</sup>
Type of sensing probe	PT100 class A in a stainless steel protection tube
Response time $\tau_{90}$	10 sec.
Cable length	Approx. 1m (3.3ft), PUR-cable and handgrip applicable up to 80°C (176°F)
Order code	Short (150mm): <b>HA040102</b> Long (300mm): <b>HA040103</b>

### Robust and accurate PT100 cut-in food made of stainless steel



Application	Solid, liquid and powdery media
Measuring range	-40...400°C (-40...752°F) <sup>1)</sup>
Type of sensing probe	PT100 class A
Response time $\tau_{90}$	10 sec.
Cable length	Approx. 1m (3.3ft), PUR-cable and handgrip applicable up to 80°C (176°F)
Order code	<b>HA040104</b>

### Fast thermocouple-immersion probe for temperatures up to 1100°C (2012°F)



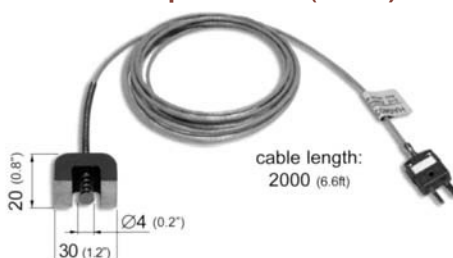
Application	Liquid and powdery media
Measuring range	-50...1100°C (-58...2012°F) <sup>1)</sup>
Type of sensing probe	Typ. K, cl. 1, Inconel
Response time $\tau_{90}$	4 sec.
Cable length	Approx. 1m (3.3ft), cable and handgrip applicable up to 80°C (176°F)
Order code	<b>HA040302</b>

### Thermocouple surface sensor for temperature up to 600°C (1112°F)



Application	Solid media
Measuring range	-50...600°C (-58...1112°F) <sup>1)</sup>
Type of sensing probe	Typ. K, cl. 1, stainless steel protection tube with nickel contact-plate
Response time $\tau_{90}$	5 sec.
Cable length	Approx. 1m (3.3ft), cable and handgrip applicable up to 80°C (176°F)
Order code	<b>HA040303</b>

### Magnetic thermocouple surface sensor, spring-mounted thermocouple, connection via 2m PTFE cable up to 150°C (302°F)



Application	Solid media
Measuring range	-50...150°C (-58...302°F) <sup>1)</sup>
Type of sensing probe	Typ. K, cl. 1
Cable length	Approx. 2m (6.6ft), PTFE cable and handgrip applicable up to 150°C (302°F)
Order code	<b>HA040304</b>

<sup>1)</sup> Auf zulässige Betriebstemperatur des Nessfühler-handgriffers achten!

