

LEAFLET



TP1110-HD2307

TEMPERATURE METER

IP67









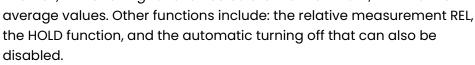
TP1110-HD2307

TEMPEATURE METER



The **HD2307.0** is a portable instrument with a large LCD display. It measures the temperature using Pt100 or Pt1000 immersion, penetration, contact or air probes. The sensor can be a Pt100 3 or 4 wires, Pt1000. The probes are fitted with an automatic detection module, with the factory calibration settings already being memorized inside.

The Max, Min and Avg function calculate the maximum, minimum or average values. Other functions include: the relative measurement REL, the HOLD function, and the automatic turning off that can also be





The instruments have IP67 protection degree.

INSTRUMENT TECHNICAL CHARACTERISTICS

Instrument

Dimensions : (Length x Width x Height) 140x88x38mm

: 160g (complete with batteries) Weight

Materials : ABS

Display : 2x 4½ digits plus symbols

Visible area: 52x42mm

Operating conditions

Operating temperature : -5...50°C Warehouse temperature : -25...65°C

Working relative humidity : 0...90%RH without condensation

Protection degree : IP67

Power supply

Batteries : 3 1.5V type AA batteries

: 200 hours with 1800mAh alkaline batteries **Autonomy**

Current consumption with instrument off : < 20μA

Measuring unit : °C - °F

Connections

Input module for probes : 8-pole male DIN45326 connector

Measurement of temperature by Instrument

Pt100 measurement range : -200...+650°C Pt1000 measurement range : -200...+650°C

Resolution : 0.1°C : ±0.05°C Accuracy : 0.1°C/year Drift after 1 year



TECHNICAL DATA OF PROBES AND MODULES EQUIPPED WITH INSTRUMENT

Temperature probes Pt100 sensor with SICRAM module

Model	Туре	Application field	Accuracy	
TP472I	Immersion	-196°C+500°C	±0.25°C (-196°C+300°C) ±0.5°C (+300°C+500°C)	
TP472I.0 1/3 DIN Thin Film	Immersion	-50°C+300°C	±0.25°C (-50°C+300°C)	
TP473P.I	Penetration	-50°C+400°C	±0.25°C (-50°C+300°C) ±0.5°C (+300°C+400°C)	
TP473P.0 1/3 DIN Thin Film	Penetration	-50°C+300°C	±0.25°C (-50°C+300°C)	
TP474C.I	Contact	-50°C+400°C	±0.3°C (-50°C+300°C) ±0.5°C (+300°C+400°C)	
TP474C.0 1/3 DIN Thin Film	Contact	-50°C+300°C	±0.3°C (-50°C+300°C)	
TP475A.0 1/3 DIN Thin Film	Air	-50°C+250°C	±0.3°C (-50°C+250°C)	
TP472I.5	Penetration	-50°C+400°C	±0.3°C (-50°C+300°C) ±0.6°C (+300°C+400°C)	
TP472I.10	Penetration	-50°C+400°C	±0.30°C (-50°C+300°C) ±0.6°C (+300°C+400°C)	
TP49A.0 Class A Thin Film	Immersion	-70°C+250°C	±0.3°C (-70°C50°C) ±0.25°C (-50°C+250°C)	
TP49AC.0 Class A Thin Film	Contact	-70°C+250°C	±0.3°C (-70°C50°C) ±0.25°C (-50°C+250°C)	
TP49AP.0 Class A Thin Film	Penetration	-70°C+250°C	±0.3°C (-70°C50°C) ±0.25°C (-50°C+250°C)	
TP875.I	Globe-thermometer Ø150mm	-30°C+120°C	±0.25°C	
TP876.I	Globe-thermometer Ø50mm	-30°C+120°C	±0.25°C	
TP87.0 1/3 DIN Thin Film	Immersion	-50°C+200°C	±0.25°C	
TP878.0 1/3 DIN Thin Film TP878.1.0 1/3 DIN Thin Film	Photovoltaic	+4°C+85°C	±0.25°C	
TP879.0 1/3 DIN Thin Film	Compost	-20°C+120°C	±0.25°C	



4 wire Pt100 and 2 wire Pt1000 Probes

Model	Туре	Application field	Accuracy
TP47.100.0 1/3 DIN Thin Film	4 wires Pt100	-50+250°C	1/3 DIN
TP47.1000.0 1/3 DIN Thin Film	2 wires Pt1000	-50+250°C	1/3 DIN
TP87.100.0 1/3 DIN Thin Film	4 wires Pt100	-50+200°C	1/3 DIN
TP87.1000.0 1/3 DIN Thin Film	2 wires Pt1000	-50+200°C	1/3 DIN

Common characteristics

Temperature drift @ 20°C

Pt100 0.003%/°C Pt1000 0.005%/°C

ORDER CODES

HD2307.0K: The kit consists of the instrument HD2307.0, 3 1.5V alkaline batteries, instruction manual and case.

The probes have to be ordered separately.

Probes equipped with SICRAM module

TP472I: Immersion probe, Wire Wound Pt100 sensor. Stem Ø 3 mm, length 300 mm. Cable 2 meters long.

TP4721.0: Immersion probe, Thin Film Pt100 sensor. Stem \varnothing 3 mm, length 230 mm. Cable 2 meters long.

TP473P.I: Penetration probe, Wire Wound Pt100 sensor. Stem Ø 4mm, length 150 mm. Cable 2 meters long.

TP473P.0: Penetration probe, Thin Film Pt100 sensor. Stem Ø 4mm, length 150 mm. Cable 2 meters long.

TP474C.I: Contact probe, Wire Wound Pt100 sensor. Stem Ø 4mm, length 230mm, contact surface Ø 5mm. Cable 2 meters long.

TP474C.0: Contact probe, Thin Film Pt100 sensor. Stem Ø 4mm, length 230mm, contact surface Ø 5mm. Cable 2 meters long.

TP475A.0: Air probe, Thin Film Pt100 sensor. Stem Ø 4mm, length 230mm. Cable 2 meters long.

TP4721.5: Penetration probe, Thin Film Pt100 sensor. Stem Ø 6mm, length 500 mm. Cable 2 meters long.

TP4721.10: Penetration probe, Thin Film Pt100 sensor. Stem Ø 6mm, length 1000mm. Cable 2 meters long.

TP49A.0: Immersion probe, Thin Film Pt100 sensor. Stem Ø 2.7mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP49AC.0: Contact probe, Thin Film Pt100 sensor. Stem Ø 4 mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP49AP.0: Penetration probe, Thin Film Pt100 sensor. Stem Ø 2.7mm, length 150mm. Cable 2 meters long. Aluminium handle.

TP875.1: Globe thermometer Ø 150 mm with handle. Wire Wound Pt100 sensor complete of SICRAM module. Cable 2 meters long.

TP876.1: Globe thermometer Ø 50 mm with handle. Wire Wound Pt100 sensor complete of SICRAM module. Cable 2 meters long.

TP87.0: Immersion probe, Thin Film Pt100 sensor. Stem Ø 3 mm, length 70 mm. Cable 2 meters long. **TP878.0:** Contact probe for solar panels. Thin Film Pt100 sensor. Cable 2 meters long.



TP878.1.0: Contact probe for solar panels. Thin Film Pt100 sensor. Cable 5 meters long.

TP879.0: Penetration probe for compost. Thin Film Pt100 sensor. Stem Ø 8 mm, length 1000mm. Cable 2 meters long.

Temperature probes without SICRAM module

TP47.100.0: Immersion probe, Thin Film Pt100 sensor probe. Stem Ø 3 mm, length 230mm. 4 wires connection cable with connector, 2 meters long.

TP47.1000.0: Thin Film Pt1000 sensor immersion probe. Stem Ø 3 mm, length 230mm. 2 wires connection cable with connector, 2 meters long.

TP47: Only connector for probe connection without SICRAM module: direct 3 and 4 wires Pt100, 2 wires Pt1000.

TP87.100.0 Immersion probe, Thin Film Pt100 sensor. Stem Ø 3 mm, length 70mm. Cable 2 meters long. 4 wires connection cable with connector 1 meter long.

TP87.1000.0 Immersion probe, Thin Film Pt100 sensor. Stem Ø 3 mm, length 70mm. Cable 2 meters long. 2 wires connection cable with connector 1 meter long.







TO MEASURE TO KNOW

0297 325836 info@nieuwkoopbv.nl www.meten.nl

