



**NIEUWKOOP**

# FOLDER



## TP1110-HD2307

TEMPERATUUR METER

IP67





De HD2307.0 is een draagbaar instrument met een groot LCD display. De temperatuur wordt gemeten d.m.v. Pt100 of Pt1000 dompel, insteek, oppervlakte of lucht sensoren. De sensor kan zijn een; Pt100 3 of 4 draads, Pt1000.

De sensoren zijn voorzien van een automatische herkenningmodule (SICRAM) met een fabriek-kalibratie in zijn geheugen. De Max, Min en Avg functie berekent de maximum, minimum of gemiddelde waarden. Andere functies zijn: de relatieve meting REL, de HOLD functie en de automatische uitschakelfunctie kan ook worden uitgezet.

Het instrument heeft een IP67 behuizing.



**INSTRUMENT TECHNISCHE SPECIFICATIES**

**Instrument**

Afmeting : (LxBxH) 140x88x38mm  
 Gewicht : 160g (incl.bat.)  
 Behuizing : ABS  
 Display : 2x4½ digits plus symbolen  
 Aflees gedeelte: 52x42mm

**Werk condities**

Werk temp. : -5...50°C  
 Opslag temp. : -25...65°C  
 Werk RV : 0...90%RV (geen condens)  
 Behuizing : IP67

**Voeding**

Batterijen : 3 x 1.5V type AA  
 Verbruik : 200 hours with 1800mAh alkaline batteries  
 Stroom verbruik in uitstand : > 20µA

**Aansluitingen**

Ingangmodule voor de sensoren : 8-polig male DIN45326 connector

**Meting v.d. temp. door het instrument**

Pt100 meetbereik : -200...+650°C  
 Pt1000 meetbereik : -200...+650°C  
 Resolutie : 0.1°C  
 Nauwkeurigheid : ±0.05°C  
 Verloop na 1 jaar : 0.1°C/jaar

**EMC standaard voorschriften**

- Security EN61000-4-2, EN61010-1 level 3
- Electrostatic discharge EN61000-4-2 level 3
- Electric fast transients EN61000-4-4 level 3, EN61000-4-5 level 3
- Voltage variations EN61000-4-11
- Electromagnetic interf.
  - susceptibility EN61000-4-3
  - emission EN55020 class B



**TECHNISCHE GEGEVENS VAN SENSOREN MET SICRAM MODULE**

Model	Type	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°C...-50°C) ±0.25°C (-50°C...+250°C)
TP49AC.0 Class A Thin Film	Contact	-70°C...+250°C	±0.3°C (-70°C...-50°C) ±0.25°C (-50°C...+250°C)
TP49AP.0 Class A Thin Film	Penetration	-70°C...+250°C	±0.3°C (-70°C...-50°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

*Algemene specificaties*

Temperatuur verloop @ 20°C      0.003%/°C



#### 4 draads Pt100 en 2 draads Pt1000

Model	Type	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

#### Algemene specificaties

Temperatuur verloop @ 20°C

Pt100 0.003%/°C

Pt1000 0.005%/°C

#### BESTELCODES:

**HD2307.0K** De kit bestaat uit het instrument HD2307.0, 3 x 1.5V alkaline batterijen, gebruiksaanwijzing, koffer.

#### De sensoren dienen separaat besteld te worden.

#### Sensoren compleet met SICRAM module

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

**TP472I.0:** Immersion probe, Thin Film Pt100 sensor. Stem Ø 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.

**TP472I.5:** Penetration probe, Thin Film Pt100 sensor. Stem Ø 6mm, length 500 mm. Cable 2 meters long.

**TP472I.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.I:** Globe thermometer Ø 150 mm with handle. Wire Wound Pt100 sensor complete of SICRAM module. Cable 2 meters long.

**TP876.I:** 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  $\varnothing$  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  $\varnothing$  8 mm, length 1000mm. Cable 2 meters long.

#### **Temperature probes zonder SICRAM module**

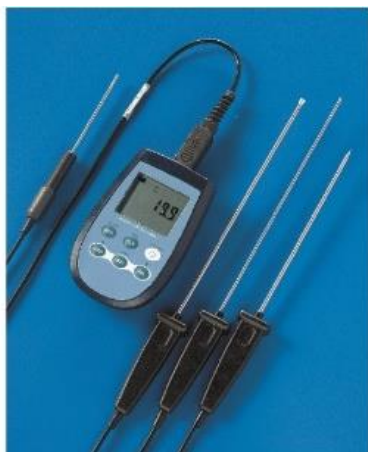
**TP47.100.0:** Immersion probe, Thin Film Pt100 sensor probe. Stem  $\varnothing$  3 mm, length 230mm. 4 wires connection cable with connector, 2 meters long.

**TP47.1000.0:** Thin Film Pt1000 sensor immersion probe. Stem  $\varnothing$  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  $\varnothing$  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  $\varnothing$  3 mm, length 70mm. Cable 2 meters long. 2 wires connection cable with connector 1 meter long.





**METEN**  **WETEN**

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