# THERMOMETER/DATALOGGER WITH PT100 AND THERMOCOUPLE INPUT

**NEW!**



HIGHLIGHTS:

○ Input for Pt100 sensor (SICRAM plug) and thermocouple

○ Data logger function

○ USB connection and software for realtime monitoring

## HD 2178.2

Thermometer mit zwei Eingängen (1 x Pt 100, 1 x Thermoelement) mit großem LCD Display und Datenloggerfunktion

### General:

The HD2178.2 can be used with Pt 100 sensors and with thermocouples. Pt 100 sensors with SICRAM plugs (8-pin DIN 45326 plug) can be connected to connection B. The SICRAM plug already has all of the sensor data, including serial number and calibration data. A thermocouple of the type K, J, T, N and E with miniature flat plug can be connected to connection A. The data logger stores up to 80,000 measurements, which can be transferred conveniently via USB cable and supplied software. Battery operation, large display and durability make the HD2178.2 a perfect all-rounder. Of course, the HD2178.2 also offers MAX, MIN, AVG, REL and HOLD functions.
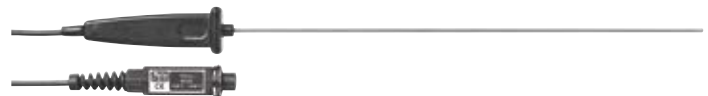
### Application:

With the large variety of available sensors (as contact, immersion, insertion or air temperature sensors), a multitude of applications in the widest range of sectors opens up.

### Specifications:

| | |
|---|---|
| **Display:** | LCD, 52 x 42 mm |
| **Operating temperature:** | -5 ... +50 °C (Instrument) |
| **Protection degree:** | IP 66 |
| **Power supply:** | 4 batteries 1.5 V type AA (Optional mains adapter) |
| **Unit of measurement:** | °C or °F |
| **Security of stored data:** | Unlimited, independent of battery charge conditions |
| **Measured values storage:** | 2000 pages each one containing 40 samples, quantity 80000 samples in total |
| **Storage interval:** | 1, 5, 10, 15, 30 s; 1, 2, 5, 10, 15, 20, 30 min; 1 h |
| **USB interface:** | USB 2.0, type B mini USB connection |
| **Housing:** | Material: ABS plastic, rubber |
| **Dimensions:** | 185 x 90 x 40 mm |
| **Weight:** | 470 g (complete with batteries) |
| **Scope of supply:** | Device including batteries, case for HD 2178.2, DeltaLog 9 software. Measuring probes, connecting cable and mains adapter are not included in the scope of supply. |

Pt100 sensor with SICRAM plug selection
(Additional versions available on request, including ball temperature)

Example: TP 472 I (immersion sensor)



Immersion probe, -196 ... +500 °C, ±0,25 °C (-196 ... +300 °C), ø 3mm, sensor length 300 mm, cable length 2 m

### Accessories and spare parts:

**CP23**
USB connecting cable (mini USB plug on the device and PC USB plug)

**SWD10**
*Art. no. 700039*
Stabilised mains adapter, 100 ... 240 VAC, 12 VDC 1 A

### Recommended accessories (PT100 sensor with SICRAM plug):

**TP 472 I**
Immersion probe, Pt100, Ø 3 mm, length 300 mm, cable length 2 m, measuring range:
-196 ... +500 °C, Accuracy: ±0.25 °C (-196 ... +300 °C), ±0.5 °C (+300 ... +500 °C)

**TP 472 I.0**
Immersion probe, Pt100, Ø 3 mm, length 230 mm, cable length 2 m, measuring range:
-50 ... +300 °C, Accuracy: ±0.25 °C (-50 ... +300 °C)

**TP 473 P.I**
Insertion probe, Pt100, Ø 4 mm, length 150 mm, cable length 2 m, Measuring range:
-50 ... +400 °C, Accuracy: ±0.25 °C (-50 ... +300 °C), ±0.5 °C (+300 ... +400 °C)

**TP 473 P.0**
Insertion probe, Pt100, Ø 4 mm, length 150 mm, cable length 2 m, Measuring range:
-50 ... +300 °C, Accuracy:±0.25 °C (-50 ... +300 °C)

**TP 474 C.O**
Contact probe, Pt100, Ø 4 mm, length 230 mm, contact surface Ø 5 mm, cable length 2 m,
Measuring range:-50 ... +300 °C, Accuracy: ±0.3 °C (-50 ... +300 °C)

**TO 475 A.0**
Air probe, Pt100, Ø 4 mm, length 230 mm, cable length 2 m, Measuring range:
-50 ... +250 °C, Accuracy: ±0.3 °C (-50 ... +250 °C)

**TP47**
SICRAM plug for connection of Pt sensors without SICRAM connection (4-wire direct Pt 100, 2-wire Pt 1000)

**HANDHELD INSTRUMENT**

**DISPLAY / CONTROLLER**

**LOGGER / BUS SYSTEMS**

**TRANSMITTER**

**TEMPERATURE PROBE**

**ALARM / PROTECTION, LEVEL**

for further information p.r.t. www.gsg-industrietechnik.com