

RTD THERMOMETERS / DATALOGGERS

HD 2127.1 & HD 2127.2



The HD2127.1 and HD2127.2 are portable instruments with two inputs and a large LCD display. They measure the temperature using immersion, penetration, contact or air probes.

The instruments accept input from probes with SICRAM module and Pt100 sensor or probes with direct 4 wire Pt100 sensor.

The HD2127.2 instruments is a datalogger. It memorizes up to 32,000 pairs of data which can be transferred from the instrument connected to a PC via the multi-standard RS232C serial port or a USB 2.0. The storing interval, printing, and baud rate can be configured using the menu.

The HD2127.1 and HD2127.2 models are fitted with an RS232C serial port and can transfer the acquired measurements to a PC or to a portable printer in real time. The Max, Min and Avg function calculates the maximum, minimum or average values; the A -B function calculates the difference of the temperatures measured by the two inputs A and B.

Other functions include: the relative measurement REL, the HOLD function, and the automatic turning off which can also be disabled.

The instruments have IP67 protection degree.

Instrument Technical Characteristics

Instrument

Display	2×4½ digits plus symbols Visible area: 52×42mm
Dimensions (L × W × H)	185 × 90 × 40mm
Weight	470g (complete with batteries)
Materials	ABS, rubber

Operating conditions

Working temperature	-5...50°C
Storing temperature	-25...65°C
Working relative humidity	0...90%RH without condensation
Protection degree	IP67

Power

Batteries	4 × 1.5V type AA batteries
Autonomy	200 hours with 1800mAh alkaline batteries
Power absorbed with instrument off	20mA

Connections

Input module for the temp probes pH/mV input	8-pole male DIN45326 connector Female BNC
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Measuring Units	°C - °F - °K
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Security of Memorized Data

Unlimited, independent of battery charge conditions

Time

Date and time	Schedule in real time
Accuracy	1 min/month max departure

Measured Values Storage - Model HD2127.2

Type	2000 pages containing 16 pairs of samples each
Quantity	Total of 32000 samples (channel A + channel B)
Storage Interval	1s...3600s (1hour)

Serial interface RS232C

Type	RS232C electrically isolated
Baud Rate	Can be set from 1200 to 38400 baud
Data bit	8
Parity	None
Stop bit	1
Flow Control	Xon/Xoff
Serial Cable Length	Max 15m
Immediate Print Interval	1....3600s (1 hour)

Connections

Input modules for the probes	2 8-pole male DIN45326 connectors
Serial Interface	8-pole MiniDin connector
USB interface-model	HD2127.2 8-pole MiniDin connector
Mains adapter	2-pole connector (positive at centre)

USB interface - Model HD2127.2

Type 1.1 - 2.0 electrically isolated

Measurement of Temperature by Instrument

Pt100 Measurement Range	-200....+650°C
Pt1000 Measurement Range	-200....+650°C
Ni1000 Measurement Range	-50....+250°C
Resolution	0.01°C in the range $\pm 199.99^\circ\text{C}$ 0.1°C in the remaining field

Accuracy

Drift after 1 year	$\pm 0.01^\circ\text{C}$ 0.1°C / year
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ORDERING CODE :

HD2127.1K	:	The kit is composed of the instrument HD2127.1, connection cable for serial output HD2110CSNM, 4x1.5V alkaline batteries, operating manual, case and DeltaLog9 software . The probes must be ordered separately.
HD2127.2K	:	The kit is composed of the HD2127.2 datalogger, connection cable HD2101/USB, 4x1.5V alkaline batteries, operating manual, case and DeltaLog9 software. The probes must be ordered separately.
HD2110CSNM:		8-pole connection cable MiniDin - Sub D 9-pole female for RS232C.
HD2101/USB	:	Connection cable USB 2.0 connector type A - 8-pole MiniDin.
DeltaLog9	:	Software for download and management of the data on PC using Windows 98 to XP operating systems.
AF209.60	:	Stabilized power supply at 230Vac/9Vdc -300mA mains voltage.
S'print-BT	:	On request, portable, serial input, 24 column thermal printer, 58mm paper width.

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