

HD2107.1, HD2107.2, HD2127.1, HD2127.2



**HD2107.1- HD2107.2 - HD2127.1 - HD2127.2
Pt100 AND Pt1000 SENSORS THERMOMETERS**

HD2107.1 and HD2107.2 are portable instruments equipped with large LCD display fitted with one input. HD2127.1 and HD2127.2 are instruments fitted with two inputs. They measure temperature by means of immersion, penetration, contact or air probes. Their sensor can be Pt100 with 3 or 4 wires, Pt1000 with 2 wires. They have centesimal resolution in the range $\pm 199.99^{\circ}\text{C}$, decimal in the rest of the range.

Probes are equipped with an automatic recognition module: factory calibration data are stored inside.

The instruments HD2107.2 and HD2127.2 are data logger; they store up to 80.000 samples which can be transferred into a PC connected to the serial ports RS232C and USB 2.0 or into portable printer.

It is possible to configure the storage interval, the printing and the baud rate by the menu.

Functions Max, Min and Avg calculate maximum, minimum and average values.

Further functions are: REL relative measure, HOLD and automatic switching-off system (excludable).

Instruments have IP66 protection degree.

	HD2107.1	HD2107.2	HD2127.1	HD2127.2
TC input:	1	1	2	2
Storage capacity	----	76000 samples	----	38000 couples of temperatures
PC interface	RS232C	RS232C + USB2.0	RS232C	RS232C + USB2.0
Data logger	NO	YES	NO	YES
A-B function	NO	NO	YES	YES

Technical specifications

Measurement of temperature

Pt100 measurement range	-200...+650°C
Pt1000 measurement range	-200...+650°C
Resolution	0.01°C in the range $\pm 199.99^{\circ}\text{C}$ 0.1°C in the remaining range
Instrument Accuracy	$\pm 0.01^{\circ}\text{C}$
Drift after 1 year	0.1°C/year
Unit of measurement	°C - °F - K

Measured values storage model HD2107.2

Type	2000 pages containing 40 samples each
Quantity	Total of 80000 samples
Storage interval can be selected among	1,5,10,15,30 s 1,2,5,10,15,20,30 min.; 1 hour

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 can be selected among	1,5,10,15,30 s 1,2,5,10,15,20,30 min.; 1 hour
Security of stored data	Unlimited, independent of battery charge conditions

Power Supply

Batteries	4 Batteries 1.5V type AA
Autonomy	200 hours with 1800mAh alkaline batteries
Current consumption with instrument off	20µA
Main	12Vdc / 1000mA Output mains adapter

Serial interface RS232C

Type	RS232C galvanically 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
Print interval	Immediate or selectable among: 1,5,10,15,30 s; 1,2,5,10,15,20,30 min.; 1 hour

USB interface - model HD2107.2, HD2127.2

Type	1.1 - 2.0 galvanically isolated
Connections	
Input for the probes	8-pole male DIN45326 connector
RS232C serial interface	8-pole MiniDin connector
USB interface	Type B MiniUSB connector
Mains adapter	2-pole connector (positive at centre)

Operating conditions

Operating Temperature	-5...50°C
Storage temperature	-25 ... 65°C
Working relative humidity	0 ... 90%RH, no condensation

Protection degree	IP66
General characteristics	
Dimensions (Length x Width x Height)	185x90x40mm
Weight	470g (complete with batteries)
Materials	ABS, rubber
Display	2 rows 4½ digits plus symbols Visible area: 52x42mm
Time	
Date and time	In real time
Accuracy	1min/month max drift

PC, is necessary the USB/serial converter C.206. The converter is supplied with its own drivers which must be installed before the connection of the converter to the PC (see details in the Cd-Rom supplied with the converter).

C The port with the miniDin connector is a serial port type RS232C. The serial port RS232C of a PC or the printer HD40.1 can be connected by the cable HD2110CSNM.

ORDERING CODES

HD2107.1: The kit consists of instrument HD2107.1, 4 per 1.5V alkaline batteries, instruction manual, case and Datalog9 software downloadable from Delta OHM website. Probes and cables have to be ordered separately.

HD2107.2: The kit consists of instrument HD2107.2 data logger, 4 per 1.5V alkaline batteries, instruction manual, CP23 USB cable, case and Datalog9 software downloadable from Delta OHM website. Probes have to be ordered separately.

HD2127.1: The kit consists of instrument HD2127.1, 4 per 1.5V alkaline batteries, instruction manual, case and Datalog9 software downloadable from Delta OHM website. Probes and cables have to be ordered separately.

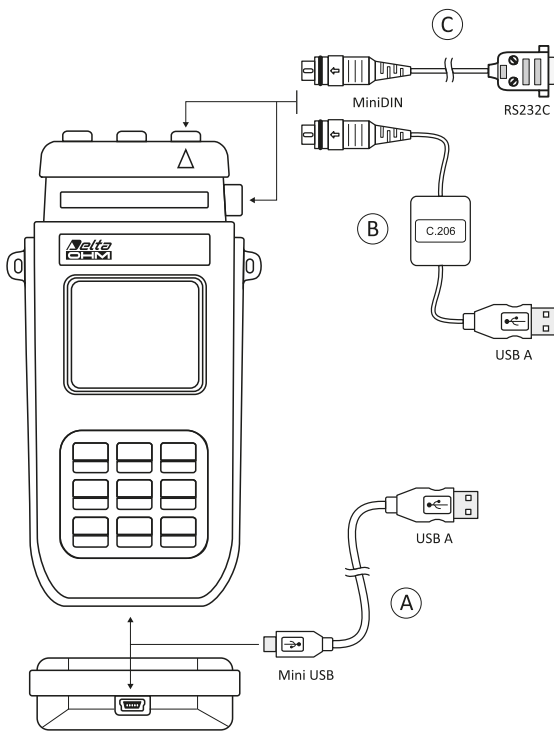
HD2127.2: The kit consists of instrument HD2127.2 data logger, 4 per 1.5V alkaline batteries, instruction manual, CP23 USB cable, case and Datalog9 software downloadable from Delta OHM website. Probes have to be ordered separately.

HD2110CSNM: 8-pole connection cable MiniDin - Sub D 9-pole female for RS232C.

C.206: Cable for instruments of the series HD21...1 to connect to USB input of PC.

SWD10: Stabilized 230Vac/12Vdc-1000mA mains adapter.

HD40.1: Upon request, portable, serial input, 24 column thermal printer, 58mm paper width. Use cable HD2110CSNM (option).



For all Pt100 and Pt1000 probes, see from **pag.30** onwards.

A The portable data loggers HD2107.2 HD2127.2 are equipped with HID (Human Interface device) type USB port with mini USB connector.

For the connection to a PC with the CP23 cable it is not necessary to load any USB driver.

B For the connection of the models HD21071 HD2127.1 to the USB port of a



HD2107



HD2127