



**HD 2108.1, HD 2108.2, HD 2128.1, HD2128.2
THERMOCOUPLE THERMOMETERS: K, J, T, N, R, S, B, E**

The HD2108.1 and HD2108.2 **with one input** and the HD2128.1 and HD2128.2 **with two inputs** are portable instruments with a large LCD display. They measure the temperature using immersion, penetration air or contact probes. The sensor may be a thermocouple of type K, J, T, N, R, S, B or E.

Instruments HD2108.2 and HD2128.2 are **data logger**, they store up to 76.000 samples the first and 38.000 couples of values the second. These data can be transferred into a PC connected to the instrument through a multi-standard RS232C serial port and a USB 2.0. It is possible to configure the storage interval, the printing and the baud rate by the menu.

All models are equipped with RS232C serial port and are able to transfer the acquired measures, in real time, into a PC or a portable printer.

Functions Max, Min and Avg calculate maximum, minimum and average values. Further functions are: REL relative measure, HOLD and automatic switching-off system, excludable. HD2128.1 and HD2128.2 calculate A-B difference of the temperatures acquired by the two input channels.

Instruments have IP67 protection degree.

	HD2108.1	HD2108.2	HD2128.1	HD2128.2
TC input:	1	1	2	2
Storage capacity	----	76000 samples	----	38000 couples of temperature
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 OF THE INSTRUMENTS

Instrument

Dimensions (Length x Width x Height) 185x90x40mm
Weight 470g (complete with Batteries)
Materials ABS, rubber
Display 2x4½ digits plus symbols
Visible area: 52x42mm

Operating conditions

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

Protection degree IP67

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 main adapter

Unit of measurement

°C - °F - °K - mV - mV*°C

Security of data stored

Unlimited, independent of battery charge conditions
1min/month max drift

Time

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

Measured values storage

Model **HD2108.2** 2000 pages each one containing 38 samples, 76000 samples in total

Model **HD2128.2** 2000 pages each one containing 19 samples, 38000 couples of samples
Storage interval 1s ... 3600s (1 hour)

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 1s ... 3600s (1 hour)

USB interface - model HD2108.2 and HD2128.2

Type 1.1 - 2.0 electrically isolated

Connections

Probes input connector 2-pole female polarized standard miniature
Serial interface and USB 8-pole MiniDin connector
Mains adapter 2-pole connector (positive at centre)



