

DIGITAL MANOMETER WITH COMMUNICATION INTERFACE

Mod. : HD2124.1 & HD 2124.2

The **HD2124.1** and **HD2124.2** are portable instruments with Two inputs and large LCD display . They perform measurements of Absolute, Relative And Differential Pressure, and Temperature.

The PP471 electronic module is used to measure the pressure. The PP471 electronic module works as an interface between the instrument and the TP704 and TP705 series Delta Ohm probes.

The temperature is detected with immersion, penetration, contact or air Pt100 probe with SICRAM module or 4 wire direct Pt100 probe.

The **HD2124.2** instrument is a **datalogger** . It memorizes up to 32,000 samples which can be transferred from the instrument connected to a PC via the multi standard RS232C serial port & USB 2.0. The storing interval, printing and baud rate can be configured using the menu.

The Max. Min. and Avg function calculate the maximum, minimum or average values, the Peak function detects the presence of pressure peaks, the A-B function calculates the difference of the pressures or temperatures measured by the two inputs A and B . **The instruments have IP67 protection degree.**



Instrument Technical Characteristics :

Display	2x4½ characters plus symbols Visible area : 52x42mm
Materials	ABS, rubber
Dimensions (L x W x H)	185x90x40mm
Weight	470g (complete with batteries)

Operating conditions

Operating temperature	-50...50°C
Stocking temperature	-25...65°C
Working relative humidity	0...90%RH without condensation

Protection degree IP67

Power

Batteries	4x1.5V type AA batteries
Power absorbed with instrument off	20µA

Measuring unit °C - °F - Pa - hPa - mbar - bar - atm
mmHg - mmHg - kgf/cm² - PSI - inchHg

Measured values storage-model HD2124.2

Type	2000 pages of 16 samples each
Quantity	32,000 pairs of samples
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
Serial cable length	Max. 15m
Immediate print interval	1s...3600s (1hour)

USB interface - model HD2124.2

Type	1.1 -2.0 electrically isolated
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Connections

Input module for the probes	2 8-pole male DIN45326 connectors]
Serial interface	8-pole MiniDin connector
USB interface-model HD2124.2	8-pole MiniDin connector
Mains adapter	2-pole connector (positive at centre)

Measurement of Temperature by Instrument

Pt100 measurement range	-200...+650°C
Resolution	0.1°C
Instrument accuracy	± 0.1 °C
Drift after 1 year	0.1°C / year



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PRESSURE PROBE TABLE

Bottom Scale Pressure	Maximum over pressure	Resolution	ORDER CODES			Accuracy From 20 to 25°C	Working Temperature	Connection
			Differential pressure	Relative pressure (compared to atmosphere)	Absolute Pressure			
			NON insulated membrane	Insulated membrane	Insulated membrane			
10.0 mbar	20.0 mbar	0.01 mbar	TP705-10MBD			0.50 % FSO	0...60°C	Tube ø 5mm
20.0 mbar	40.0 mbar	0.01 mbar	TP705-20MBD			0.50 % FSO	0...60°C	Tube ø 5mm
50.0 mbar	100 mbar	0.01 mbar	TP705-50MBD			0.50 % FSO	0...60°C	Tube ø 5mm
100 mbar	200 mbar	0.1 mbar	TP705-100MBD			0.25 % FSO	0...60°C	Tube ø 5mm
200 mbar	400 mbar	0.1 mbar	TP705-200MBD			0.25 % FSO	0...60°C	Tube ø 5mm
				TP704-200MBGI		0.25 % FSO	0...80°C	¼ BSP
500 mbar	1000 mbar	0.1 mbar	TP705-500MBD			0.25 % FSO	0...60°C	Tube ø 5mm
				TP704-500MBGI		0.25 % FSO	0...80°C	¼ BSP
1.00 bar	2.00 bar	1 mbar	TP705-1BD	TP705BARO		0.25 % FSO	0...60°C	Tube ø 5mm
				TP705-1BGI		0.25 % FSO	0...80°C	¼ BSP
2.00 bar	4.00 bar	1 mbar	TP705-2BD			0.25 % FSO	0...60°C	Tube ø 5mm
				TP704-2BGI	TP704-2BAI	0.40 % FSO	0...80°C	¼ BSP
5.00 bar	10.00 bar	1 mbar		TP704-5BGI	TP704-5BAI	0.40 % FSO	0...80°C	¼ BSP
10.0 bar	20.0 bar	0.01 bar		TP704-10BGI	TP704-10BAI	0.40 % FSO	0...80°C	¼ BSP
20.0 bar	40.0 bar	0.01 bar		TP704-20BGI	TP704-20BAI	0.40 % FSO	0...80°C	¼ BSP
50.0 bar	100.0 bar	0.01 bar		TP704-50BGI	TP704-50BAI	0.40 % FSO	0...80°C	¼ BSP
100 bar	200 bar	0.1 bar			TP704-100BAI	0.40 % FSO	0...80°C	¼ BSP
200 bar	400 bar	0.1 bar			TP704-200BAI	0.40 % FSO	0...80°C	¼ BSP
500 bar	750 bar	0.1 bar			TP704-500BAI	0.40 % FSO	0...80°C	¼ BSP

Order Codes :

PP471 : SICRAM interface module between instrument & TP704 & TP705 series Delta Ohm probes. Cable length 2 meters. **The list of pressure probes is outlined in the technical data table.**

HD2124.1K : The kit is composed of the instrument HD2124.1, **SICRAM Interface module PP471**, connection cable for serial output HD2110CSNM, 4 × 1.5V alkaline batteries, operating manual, case and DeltaLog9 software. **The probes must be ordered separately .**

HD2124.2K : The kit is composed of the instrument HD2124.2 **datalogger SICRAM interface module PP471**, connection cable HD2101/USB , 4×1.5V 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.