

Manometer - Thermometer

MODEL : HD2304.0

The **HD2304.0** is a portable instrument with a large LCD display. It performs measurements of Absolute, Relative & 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 probes.

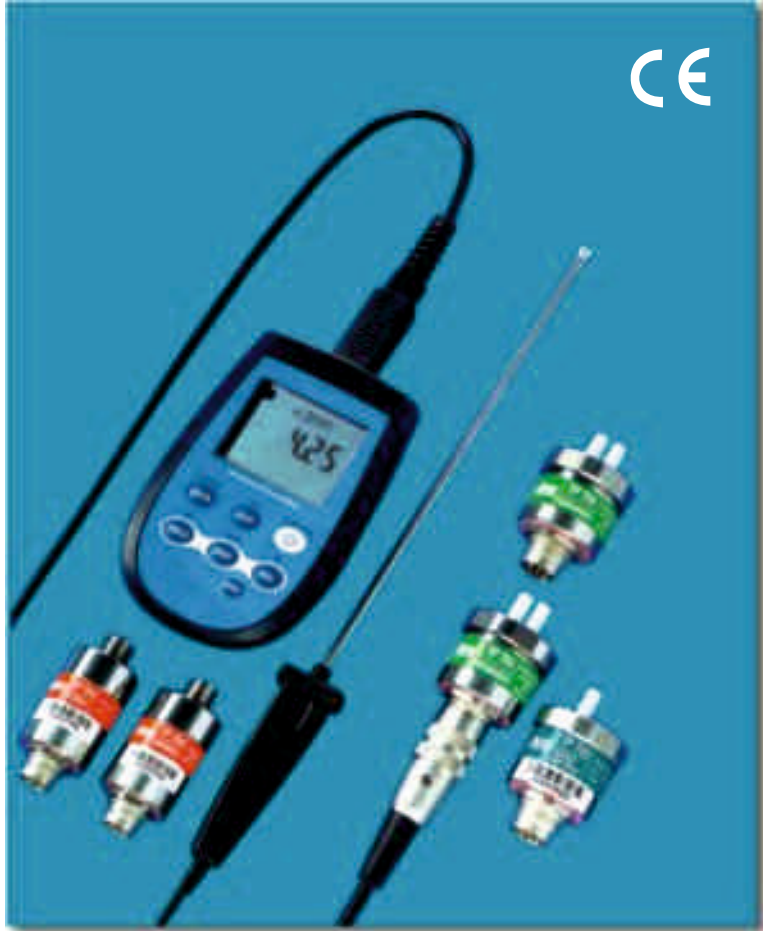
The temperature is detected with immersion, penetration, contact or air Pt100 probes with SICRAM module or 4 wire direct Pt100 probes.

The Max. Min and Avg. function calculate the maximum or average values.

Other functions include : the relative measurement REL, the HOLD function, and the automatic turning off that can also be disabled. **The instruments have IP67 protection degree.**

INSTRUMENT TECHNICAL CHARACTERISTICS

Display	2×4½ digits plus symbols Visible area : 52×42mm
Dimensions (L × W × H)	140 × 88 × 38mm
Weight	160g (complete with batteries)
Materials	ABS
Working conditions	
Operating temperature	-5...50°C
Warehouse temperature	-25...65°C
Working relative humidity	0...90%RH without condensation
Protection degree	IP67
Power	
Batteries	3 × 1.5V type AA batteries
Power absorbed with instrument off	20µA
Measuring Unit	°C - °F - Pa - hPa - kPa - mbar - bar - atm mmHg - mmH ₂ O - kgf/cm ² - PSI - inchHg
Connections	
Input module for the probes	8-pole male DIN45326 connector
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



ORDER CODES :

HD2304.0K : The kit is composed of the instrument HD2304.0, 1 SICRAM interface module PP471, 3 × 1.5V alkaline batteries, operating manual, case. **The probes must be ordered separately.**

Probes complete with SICRAM module PRESSURE MEASUREMENT PROBES

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

PRESSURE PROBE TABLE

Full 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