

MP21** PORTABLE MANOMETER

Portable electronic pressure gauges with two inputs and large LCD display. Perform measurements of absolute, relative and differential pressure and temperature.

Functions: Max, Min and Avg that calculates the maximum, minimum and average, Peak to detect presence of pressure peaks; AB that calculates the difference of the pressures or temperatures measured by the two inputs A and B. Other functions include: the relative measurement REL, HOLD and the automatic turning off.

SME471 cable works as an interface between the instrument and 704/705 transducers. RDT 100 immersion, penetration, contact or air temperature probe.

Electronics temperature probes, have memorized inside the calibration data of the factory and are automatically recognized by the instrument. In the following versions:



MP21241 Electronic pressure gauge-thermometer instrument, equipped with RS232C serial port to transfer, real-time, the acquired measurements to a PC or to a portable printer. Supplied complete with carrying case 24h, instruction manual, cable SME471, cable connection MiniDin 8 poles - 9-pin sub D female for RS232C, Software.

MP21242 Pressure gauge and thermometer data logger stores up to 32,000 pairs of stored data that can be transferred to a PC connected to the instrument via the serial port multi-standard RS232C and USB 2.0. From the menu you configure the storage interval, printing, and baud rate. Supplied complete with carrying case 24h, instruction manual, SME471 cable, cable USB 2.0 connector type A Mini Din 8 poles, Software.

Temperature and pressure probes are to be ordered separately

TECHNICAL SPECIFICATIONS

Dimensions and weight:	(L x W x H) 185x90x40mm, 470 g (with batteries)
Materials:	ABS, rubber
Display:	2x41/2 digits plus symbols. Visible area 52x42mm
Work temperature/%RH:	-5 ... 50°C, 0...90%RH, without condensation
Protection:	IP67
Power supply:	4 x 1.5V batteries type AA. Autonomy 200 hours with 1800mAh alkaline batteries
Mains adapter:	Optional, output 9Vdc / 250mA
Units:	°C - °F - Pa - hPa - kPa - mbar - bar - atm - mmHg - mmH2O - kgf/cm2 - PSI - inchHg
Date/hour:	real time. Accuracy 1min / month max deviation
Storage logger:	21242 model, 2000 pages of 16 samples each, quantity 32000 pairs of samples
Storage interval:	1s ... 3600s (1 hour)
Serial interface:	Galvanically isolated RS232C (MP 21 ... 42)
Baud rate:	1200 to 38400 baud, Data bits 8, Parity None, Stop bits 1 Flow Control Xon / Xoff
Serial cable length:	Max 15m
Instant print interval:	1s ... 3600s (1 hour)
USB Interface:	Type 1.1 - 2.0, galvanically isolated
Input connections:	2 connectors - 8 Poles male DIN 45326 input probes Serial interface and USB (MP21242) 8-pole Mini Din Mains adapter 2-pole connector (positive at center)
Temperature range:	RTD 100 -200...+650°C, resolution 0.1°C, instrument accuracy $\pm 0.1^\circ\text{C}$, drift after 1 year 0.1°C / year
SME471 module:	Accuracy $\pm 0.05\%$ fs; Peak: duration > 5ms, accuracy $\pm 0.5\%$ fs, deadband < 2% fs



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PRESSURE AND TEMPERATURE SENSORS - DESCRIPTIONS

PRESSURE SENSORS TABLE						
Pressure f.s.	Over-pressure max	Resolution	Accuracy from 20 to 25°C OFS	Differential Pressure *	Relative Pressure**	Absolute Pressure **
10.0 mbar	20.0 mbar	0.01 mbar	0.5%	705-10M		
20.0 mbar	40.0 mbar	0.01 mbar	0.5%	705-20M		
50.0 mbar	100 mbar	0.01 mbar	0.5%	705-50M		
100 mbar	200 mbar	0.1 mbar	0.25%	705-100M		
200 mbar	400 mbar	0.1 mbar	0.25%	705-200M		
			0.25%		704-200M	
500 mbar	1000 mbar	0.1 mbar	0.25%	705-500M		
			0.25%		704-500M	
1.00 bar	2.00 bar	1 mbar	0.25%	705-1B	705BARO	
			0.25%		705-1BI	
2.00 bar	4.00 bar	1 mbar	0.25%	705-2B		
			0.4%		704-2BGI	704-2BAI
5.00 bar	10.00 bar	1 mbar	0.4%		704-5BGI	704-5BAI
10.0 bar	20.0 bar	0.01 bar	0.4%		704-10BGI	704-10BAI
20.0 bar	40.0 bar	0.01 bar	0.4%		704-20BGI	704-20BAI
50.0 bar	100.0 bar	0.01 bar	0.4%		704-50BGI	704-50BAI
100 bar	200 bar	0.1 bar	0.4%			704-100BAI
200 bar	400 bar	0.1 bar	0.4%			704-200BAI
500 bar	750 bar	0.1 bar	0.4%			704-500BAI

* Membrane NOT isolated Max temperature 0 ... 60 ° C. Attacks tube. 5 mm.

** Insulating membrane. Max temperature 0 ... 80 ° C. Attacks 1/4 "BSP M

RTD 100 TEMPERATURE SENSORS, resol. 0.1 ° C, drift in temperature at 20°C= 0.003% / °C			
Model	Type	Range °C	Accuracy
472I	Immersion	-196...+500	+/-0.25°C (-196...+350°C), +/-0.4°C (+350...+500°C)
472I.0	Immersion	-50...+400	+/-0.25°C (-50...+350°C), +/-0.4°C (+350...+400°C)
473P.0	Penetration	-50...+400	+/-0.25°C (-50...+350°C), +/-0.4°C (+350...+400°C)
474C.0	Contact	-50...+400	+/-0.25°C (-50...+350°C), +/-0.4°C (+350...+400°C)
475A.0	Air	-50...+250	+/-0.3°C (-50...+250°C)
472I.5	Immersion	-50...+400	+/-0.3°C (-50...+350°C), +/-0.4°C (+350...+400°C)
472I.10	Immersion	-50...+400	+/-0.3°C (-50...+350°C), +/-0.4°C (+350...+400°C)

RTD100 TEMPERATURE SENSOR 4-W, resol. 0.1°C, drift in temperature at 20°C=0.003%/°C			
47.100	4-wires	-50...+400	Class A



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