www.aep.it



Digital pressure gauge









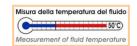












DME2 is a digital pressure gauge made according to the latest technology to ensure a high level of reliability, versatility and practicality at the same time.

The sturdiness and a high stability over time are guaranteed by a monolithic sensor made entirely of stainless steel capable of working even in the presence of highly dynamic pressures, and by a robust housing made of painted aluminum.

Designed to be used in industrial process controls and automation, it achieves a better accuracy class of **0.20%** in 16 different RELATIVE and VACUUM pressure ranges.

With this instrument it is possible to measure **TEMPERATURE** and **PRESSURE** generated by air, gas, oil, water or any other type of non-corrosive fluid.

These pressure gauges find their specific use in various industrial fields: pneumatic, hydraulic, control of food processes, refrigeration systems (vacuum), test benches, material testing machines, level meters.

In the standard version the pressure gauge is supplied externally to 24 Vdc and manages 2 SET POINTS with relay output to control pressure or temperature levels.

In OPTION you can add the ANALOGUE OUTPUT in voltage or current and the external power supply to 12Vdc.

Main features:

- PRESSURE STANDARDIZED FROM 1 bar TO 3000 bar RELATIVE and VACUUM.
- TEMPERATURE MEASUREMENT FROM 0 TO 70°C.
- PROGRAMMABLE RESOLUTION, DIGITAL FILTER AND ZERO FUNCTION.
- PEAK FUNCTION (POSITIVE PRESSURE and VACUUM).
- 2 SET POINT WITH PROGRAMMABLE RELAY OUTPUT
- ANALOG OUTPUT (OPTION)
- 12VDC EXTERNAL POWER SUPPLY (OPTION)

Data sheet: DMM2.432.R1.EN

Main features

ACCURACY (linearity and hysteresis)	≤±0,20 % F.S.		
RELATIVE PRESSURE (R) Zero at atmospheric pressure	1 - 2,5 - 5 - 10 - 20 - 50 - 100 bar 250 - 350 - 500 - 700 bar 1000 - 1500 - 2000 - 2500 - 3000 bar		
RELATIVE VACUUM (V) Zero at atmospheric pressure	-1 1 bar -1 2,5 bar -1 5 bar -1 10 bar -1 20bar		
PRESSURE UNITS	bar (other units on request)		
TEMPERATURE INDICATION a) Resolution b) Accuracy	°C 0,1 °C ± 1 °C		
REFERENCE TEMPERATURE OPERATING TEMPERATURE STORAGE TEMPERATURE RELATIVE HUMIDITY	23 °C 0 / +70 °C -10 / +80 °C < 90 % not condensed		
TEMPERATURE EFFECT (1 ° C) a) on zero b) on sensitivity	≤±0,002 % ≤±0,002 %		
RED DISPLAY highly efficient NUMBER OF DIGITS DISPLAY HEIGHT	7 segmenti 4 14 mm		
INTERNAL RESOLUTION READINGS PER SECOND PROGRAMMABLE DIGITAL FILTER PROGRAMMABLE RESOLUTION PROGRAMMABLE ZERO FUNCTION PEAK FUNCTION SETPOINT PARAMETER PROTECTION	16 bit 50 (20ms) 0 ÷ 5 1, 2, 5, 10 100 % Active in the POSITIVE /NEGATIVE RANGE Via Password		
SET POINT PROGRAMMABLE RELE' OUTPUT With EXCHANGE CONTACTS MAX TENSION TO THE CONTACTS MAX CURRENT MAX POWER	2 2 24 Vdc 500 mA 12 W		
EXTERNAL POWER SUPPLY POWER SUPPLY RANGE MAX CURRENT CONSUMPTION EXTERNAL ELECTRICAL CONNECTIONS	24 Vdc 18 26 Vdc 120 mA Sub Db9 Female		
MECHANICAL LIMIT VALUES: a) service pressure b) limit pressure c) breaking pressure d) highly dynamic pressure	100% F.S. 150% F.S. >300% F.S. 75% F.S.		

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PROCESS COUPLING	1/2" G Maschio		
SEAL RECOMMENDED	USIT A 63-18		
TIGHTENING WRENCH TIGHTENING TORQUE	27 mm 28 Nm		
PROTECTION CLASS (EN 60529) SENSOR EXECUTION MATERIAL CASE EXECUTION MATERIAL	IP65 front panel INOX 17-4 PH ALLUMINIO		

${\it Options}$ (must be purchased separately)

EXTERNAL POWER SUPPLY	12 Vdc		
ANALOG OUTPUT (Pressure)			
Current	4-20mA		
Tension (max 20mA – RL min: 1kΩ)	010V		

Included Accessories

n° 2 Mounting Brackets Italian / English Manual Nr. 2 mordant cones for high-pressure manometers from 1000 bar to 3000 bar.









Accessories (can be purchased separately)

Power Supply 220Vac – 24Vdc. Code: TALDMM			
Carrying case. Code: VALIGIADFIBIT			
Calibration Report. Code: TRM ACCREDIA certificate.	The second secon		

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STANDARD indications

	Full Scale	Display	Resolution
TYPE ⁽¹⁾	bar	bar	bar
RV	1	1.000	0.001
RV	2.5	2.500	0.001
RV	5	5.000	0.001
RV	10	10.00	0.01
RV	20	20.00	001
R	50	50.00	0.01
R	100	100.0	0.1
R	250	250.0	0.1

		Full Scale	Display	Resolution
٦	TYPE ⁽¹⁾	bar	bar	bar
	R	350	350.0	0.1
	R	500	500.0	0.1
	R	700	700.0	0.1
	R	1000	1000	1
	R	1500	1500	1
	R	2000	2000	1
	R	2500	2500	1
	R	3000	3000	1

⁽¹⁾ R = Relative V = Vacuum

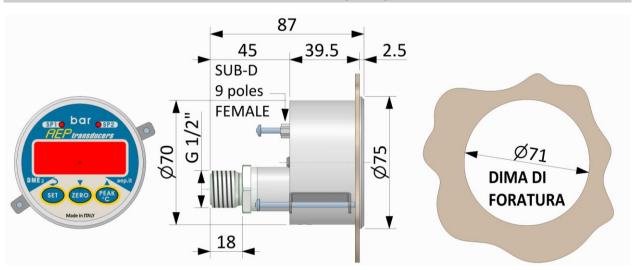
Purchase codes

TDME2	Full Scale				Analog output	Power supply
	1B	20B	350B	1KB5	A4 = 4-20mA	12 Vdc
	2B5	50B	500B	2KB	A10 = 010V	
	5B	100B	700B	2KB5		
	10B	250B	1KB	3KB		

Exsample: TDME2 50B 04

TDMMV VACUUM relative version.

Dimensions (mm):













Assurance Certified n° TÜV CY 17 ATEX 0205891 Q

41126 Cognento (MODENA) Italy Via Bottego 33/A Tel: +39-(0)59-346441 Fax: +39-(0)59-346437 E-mail: aep@aep.it

In order to improve the technical performances of the product, the company reserves the right to make any change without notice.