

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)

Main features

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

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




Options (must be purchased separately)

EXTERNAL POWER SUPPLY	12 Vdc
ANALOG OUTPUT (Pressure)	
Current	4-20mA
Tension (max 20mA – RL min: 1kΩ)	0...10V

Included Accessories

<p>n° 2 Mounting Brackets Italian / English Manual Nr. 2 mordant cones for high-pressure manometers from 1000 bar to 3000 bar.</p>	
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Accessories (can be purchased separately)

<p>Power Supply 220Vac – 24Vdc. Code: TALDMM</p>	
<p>Carrying case. Code: VALIGIADFIBIT</p>	
<p>Calibration Report. Code: TRM</p> <p>ACCREDIA certificate.</p>	

STANDARD indications

TYPE ⁽¹⁾	Full Scale	Display	Resolution
	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	0.01
R	50	50.00	0.01
R	100	100.0	0.1
R	250	250.0	0.1

TYPE ⁽¹⁾	Full Scale	Display	Resolution
	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

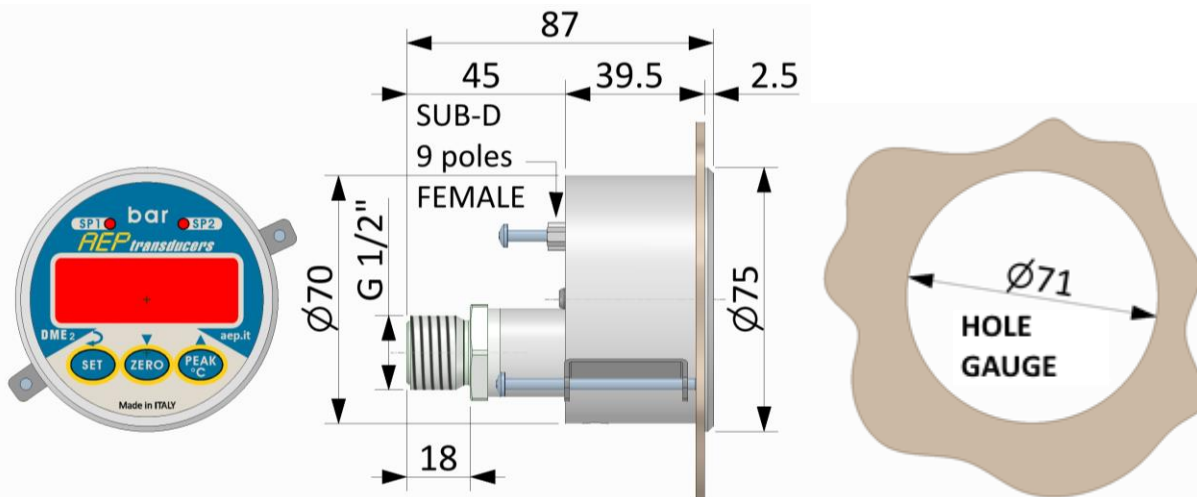
Purchase codes

TDME2	Full Scale				Analog output	Power supply 12 Vdc
	1B	20B	350B	1KB5	A4 = 4-20mA	
	2B5	50B	500B	2KB	A10 = 0...10V	
	5B	100B	700B	2KB5		
	10B	250B	1KB	3KB		

Example: **TDME2 50B 04**

TDMMV	VACUUM relative version.
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Dimensions (mm):



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