

pressure gauge with built-in pressure transmitter DS 4" (100mm)



CE Complying with standards:
EMC 2014/30/EU - PED 2014/68/EU - RoHS 2011/65/EU



Ranges: from 0...15 to 0...10000 *psi* relative,
(from 0...1 to 0...600 bar or equivalent units) ⁽¹⁾

Accuracy (% FSV):

local readout, ≤ 0,5;

transmitter, ≤ 0,25 typical; ≤ 0,5 max.

Working pressure:

100% of FSV for static pressure;

90% of FSV for pulsating pressure.

Over pressure limit: 30% of FSV.

Process fluid temperature: -13...+212 °F (-25...+100 °C);

14...+149 °F (-10...+65 °C) when filled.

Output signals: for pressure ranges ≤ 8700 *psi* (600 bar) :

4...20 mA, 0...5 Vdc, 0...10 Vdc;

(1) Ranges > 600 bar available upon request.

Calibration: limit-point as per DIN 16086.

Zero calibration: ± 10 % span typical.

Span calibration: ± 10 % span typical.

Compensated temperature range: 14...+176 °F; (-10...+80 °C).

Thermal drift: ≤ 0.011 % span / °F.

Annual drift: ≤ 0,2 % of span.

Supply and max load: see on page 2.

Response time (10...90%): < 3 ms.

8.M28.1 - Standard Model

Safety designation: S1 as per EN 837-2.

Electric connection: junction box as per VDE with exit for cables
ø 0.27"...0.51" (ø 7...13 mm).

Protection degree: IP 55 as per EN 60529/IEC 529.

Socket material: AISI 316L st.st.

Bourdon tube: AISI 316L st.st. seamless tube.

Case: stainless steel.

Ring: stainless steel, bayonet lock.

Window: tempered glass.

Movement: stainless steel with internal limit stops for minimum and maximum pressure.

Dial: aluminium, white with black markings.

Pointer: adjustable, aluminium, black.

Ambient temperature: -13...+149 °F (-25...+65 °C).

Special versions:

high overpressure: 200% of FSV for pressure ranges ≤ 3000 *psi* (250 bar), accuracy of local readout ≤ 1,0% of FSV.

8.M28.3 - Filled Model

Filling liquid: dielectric oil.

Protection degree: IP 67 as per
EN 60529/IEC 529.

Ambient temperature: 14...+149 °F (-10...+65 °C).

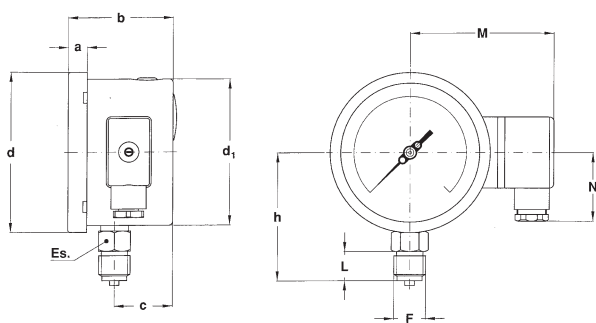
Other features: as Standard Model.

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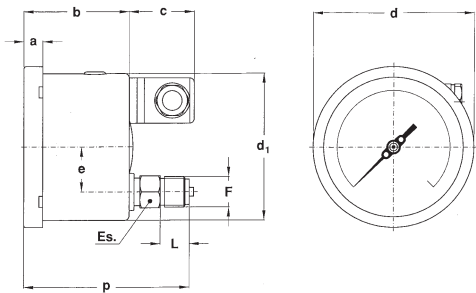
MT 18

RG4-11/22

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A - LOWER CONNECTION



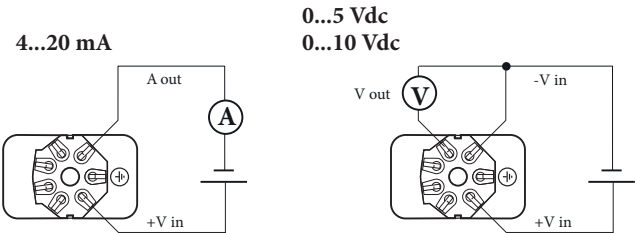
D - BACK CONNECTION

Mounting	F	a	b	c	d	d ₁	e	h	p	ES	L	N	M	Weight (1)
Lower	41M - G 1/2 A	0.51"	2.85"	1.57"	4.35"	3.97"		3.48"	4.47"	0.86"	0.78"	1.35"	3.55"	1.67 lbs
	43M - 1/2-14 NPT	(13)	(72,3)	(40,1)	(110,6)	(101)		(88,5)	(113,7)	(22)	(20)	(34,5)	(90,4)	(0,76 kg)
Back	41M - G 1/2 A	0.51"	2.85"	1.33"	4.35"	3.97"	1.22"	3.28"	4.20"	0.86"	0.51"			1.69 lbs
	43M - 1/2-14 NPT	(13)	(72,3)	(34)	(110,6)	(101)	(31)	(83,5)	(106,7)	(22)	(13)			(0,77 kg)

dimensions : inches (mm)

(1) add 0.85 lbs (0,339 kg), when filled

Output signal	4...20 mA	0...5 Vdc	0...10 Vdc
	1	4	5
N. wires	2	3	3
Load (Ohm)	$R_L \leq (V_{in}-10)/0,02$	$R_L \geq 5\text{ K}\Omega$	$R_L \geq 10\text{ K}\Omega$
Supply: +Vin	10...30	8...30	14...30
Ground	(pls. refer to Installation Manual)		



OPTIONS

CRP	- CR gasket, for pressure ranges $\leq 1500\text{ psi}$ (100 bar); process fluid temperature: $-40\dots+176\text{ }^\circ\text{F}$ ($-40\dots+85^\circ\text{C}$)
EPD	- EPDM gasket, for pressure ranges $\leq 1500\text{ psi}$ (100 bar); process fluid temperature: $-40\dots+212\text{ }^\circ\text{F}$ ($-40\dots+100^\circ\text{C}$)
NBR	- NBR gasket; process fluid temperature: $-13\dots+176\text{ }^\circ\text{F}$ ($-25\dots+85^\circ\text{C}$)
FPM	- VITON gasket; for pressure ranges $\leq 8500\text{ psi}$ (600 bar); process fluid temperature: $-4\dots+212\text{ }^\circ\text{F}$ ($-20\dots+100^\circ\text{C}$)
C01	- Calibration certificate
L22	- Maximum pointer IP 65 on plexiglas window (2)

(1) Zero calibration not available.

(2) Accuracy refers to the area free from the maximum pointer action.

“HOW TO ORDER” SEQUENCE

Section / Model / Case / Mounting / Diameter / Range / Process connection / Output signal / Gasket / Options
8 M28 1 A E 41M 1 CRP C01, L22
3 D 43M 4 EPD
5 NBR

