

pressure transmitter with local readout 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...20000 psi
(from 0...1 to 0...1600 bar or equivalent units).

Accuracy (% FSV):
local readout, $\leq 0,5$;
transmitter, $\leq 0,25$ typical; $\leq 0,5$ 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;

for pressure ranges > 8700 psi (600 bar) : 4...20 mA.

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: $\leq 0,011$ % span / °F.

Annual drift: $\leq 0,2$ % 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
 $\varnothing 0.27''...0.51''$ ($\varnothing 7...13$ 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 $\leq 1,0$ % of FSV.

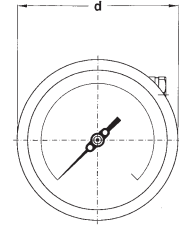
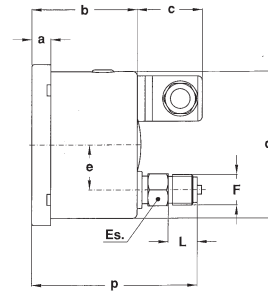
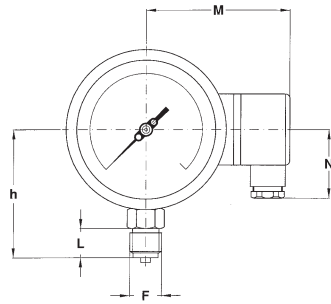
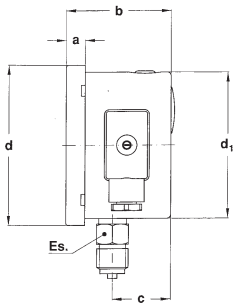
8.M28.3 - Filled Model

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.



A - LOWER CONNECTION

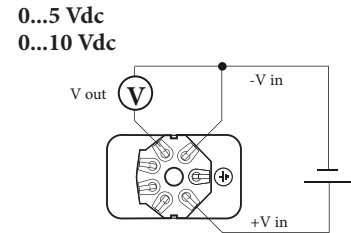
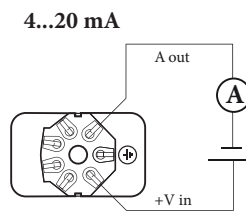
D - BACK CONNECTION

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



OPTIONS

CRP - CR gasket, for pressure ranges ≤ 1500 psi (100 bar); process fluid temperature: -40...+176 °F (-40...+85°C)
EPD - EPDM gasket, for pressure ranges ≤ 1500 psi (100 bar); process fluid temperature: -40...+212 °F (-40...+100°C)
NBR - NBR gasket; process fluid temperature: -13...+176 °F (-25...+85°C)
FPM - VITON gasket; for pressure ranges ≤ 8500 psi (600 bar); process fluid temperature: -4...+212 °F (-20...+100°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**

