

pressure transmitter with local readout DS 4" (100mm)

MT 18

- ✓ - *Double elastic element: Bourdon tube and electronic sensor.*
- ✓ - *Vibrations and pulsations proof.*
- ✓ - *EMC immunity: as per EN 61326.*
- ✓ - *Wiring: shieldless cable.*
- ✓ - *Calibration: adjustable.*



CE Compliance to requirements of directives:
EMC 2004/108/CE - PED 97/23/CE - RoHS 2011/65/CE

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: ≤ 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.

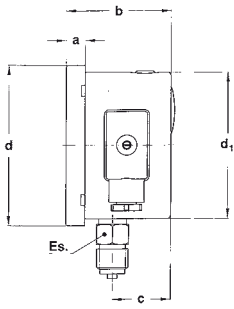
Ambient temperature: 14...+149 °F (-10...+65 °C).

pressure transmitter with local readout
DS 4" (100mm)

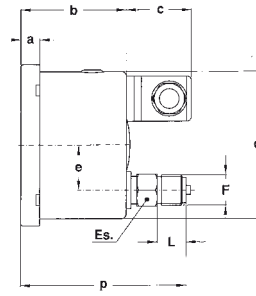
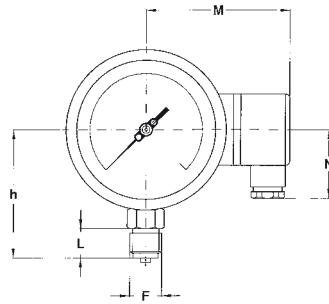
MT 18

RB2 - 04/13

IN ORDER TO IMPROVE THEIR PRODUCTION, MESSRS. NUOVA FIMA RESERVE THE RIGHT TO THEMSELVES TO MAKE ALL THE MODIFICATIONS THAT THEY DEEM INDISPENSABLE AT ANY TIME. UPDATED DATA SHEETS ARE AVAILABLE ON SITE: www.nuovafima.com



A - LOWER CONNECTION



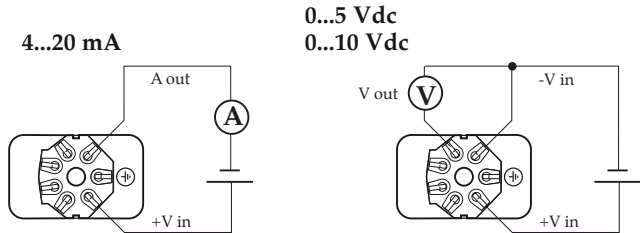
D - BACK CONNECTION

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
FPM