

PA Series Compact High Pressure Transmitter



Wind Cluster®
Creating synergy

Special Features :

- 0–60 PSI TO 0-30,000 PSI RANGES (-1/4 BAR TO 0-2,200 BAR)
- HIGH PERFORMANCE
- ROHS COMPLIANT
- LESS THAN 1" DIAMETER
- 0.25% ACCURACY
- ALL SS WELDED CONSTRUCTION

Applications :

REFRIGERATION, HYDRAULICS, AIR COMPRESSORS, WATER PUMPS, ENGINES, POWER PLANTS

Specifications :

Accuracy	0.25% FS
Long Term Drift	0.1% FS/YR (non-cumulative)
Thermal Error	1.5% FS/100°C (0.83% FS/100°F)
Compensated Temperatures	-40°C to 125°C (-40°F to 257°F)
Operating Temperatures	-40°C to 125°C (-40°F to 257°F)
Zero Tolerance	0.5% of span
Span Tolerance	0.5% of span
Response Time	1 ms

Fatigue Life Designed for more than 100 M cycles

Mechanical Configuration

Pressure Port	See under "How to Order," last page
Wetted Parts	17-4 PH Stainless Steel
Enclosure	IP67 (IP65 for electrical code A)
Vibration	40G peak to peak sinusoidal, 10-2000 Hz
Shock	Withstands free fall to IEC 68-2-32 procedure 1
EMC (Radiated Immunity)	100 V/m
Approvals	CE, conforms to European Pressure Directive, Fully RoHS compliant

Individual Specifications :

Voltage	0 V min. to 10 V max. See under "How to Order," last page
Output (3-wire)	2 Volts above full scale to 30 Vdc max @ 4.5 mA (6.5 mA on dual output version)
Supply Voltage	(2-wire) 4-20 mA 8-30 Vdc
Output Supply Voltage	(Supply Voltage-8) x 50 ohms
Maximum Loop Resistance	
Ratiometric	
Output	0.5 to 4.5 Vdc @ 4 mA (6.5 mA on dual output version)
Supply Voltage	5 Vdc ±10%



Pressure Capability

Pressure Range PSI (Bar)	Proof Pressure (x Full Scale)	Burst Pressure (x Full Scale)
50-300 (3.5-25)	3.00 x FS	40 x FS
500-1,500 (40-100)		20 x FS
2,000-6,000 (160-400)	2.00 x FS	10 x FS
7,500-15,000 (600-1,000)		4 x FS
20,000 (1,600)	1.40 x FS	2 x FS
25,000 (1,800)		1.8 x FS
30,000 (2,200)		1.5 x FS

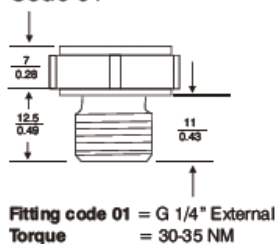
Electrical Connection

Code B

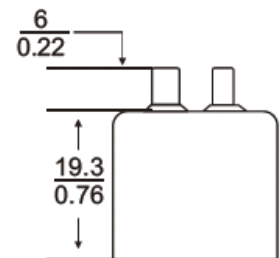
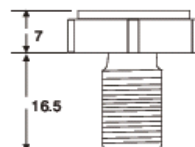
Pin #	Voltage Mode	Current Mode
1	V _{out1} (pressure)	No Connect
2	V _{supply}	Supply
3	Ground	Return

Pressure Port

Code 01



Code 2T
M12 x 1.5 HP
Internal washer seal





HOW TO ORDER

SERIES – Pressure Transmitter

PA

OUTPUT

B

B -4-20 mA
N -0.5-4.5 V
T -0.5-4.5 V Ratiometric

C - 1-6 V
R - 0.5 V

N - 1-5 V
S - 0-10V

PRESSURE RANGE – PSI

COMPOUND RANGE – BAR

-1/0 bar

0-50 psiG	0-2,000 psiS	0-10,000 psiS	-1/0 bar	-1/3 bar
0-75 psiG	0-2,500 psiS	0-15,000 psiS ¹	0/-1 bar	-1/4 bar
0-100 psiG	0-3,000 psiS	0-20,000 psiS ¹	0/1 bar	-1/1 bar
0-150 psiG	0-4,000 psiS	0-25,000 psiS ¹		
0-200 psiG	0-5,000 psiS	0-30,000 psiS ¹		
0-300 psiG	0-6,000 psiS			
0-500 psiG	0-7,500 psiS			
0-600 psiG				
0-750 psiG				
0-1,000 psiG				
0-1,500 psiG				

PRESSURE RANGE - BAR

0-4 barG 0-	0-160 barS 0-	1,000 barS ¹
5 barG 0-	250 barS 0-400	1,600 barS ¹
10 barG 0-	barS 0-600	2,200 barS ¹
16 barG 0-	barS	
25 barG 0-		
40 barG 0-		
60 barG 0-		
100 barG		

PRESSURE PORT²

01

01 - G1/4 External
 2T - M12 X 1.5 (6g) (>1000 bar, 15000 psi)

ELECTRICAL CONNECTION²

B

B - Industrial DIN (mating connector supplied)

Restrictor

000

000 - Without Restrictor
 R00 - With Restrictor

Ordering Example

PA - B / -1/0 bar - 01 - B – 000

Note : 1 : Ranges 15,000 psi (1000bar) and above available with '2T' Pressure Port only.
 2 : Others available on request.

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