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PROTRAN© PR3860

High Temperature Flush Diaphragm Pressure Transmitter

- High operating temperatures of up to 250°C
- Easy clean flush membrane to prevent clogging
- Thick film sensor technology for long service life
- Pressure ranges to 400 bar
- Good chemical compatibility for a range of applications
- Integral O-ring seal option to ensure flush pressure seal
- ATEX/IECEx option available (includes M1 for mining applications)











Specifications

The PROTRAN© PR3860 high temperature pressure transmitter has been designed to meet the requirements of the majority of industrial pressure measurement applications where a hygienic flush diaphragm connection is required.

Robustly constructed from stainless steel, the PR3860 pressure transmitter permits accurate pressure measurement at elevated temperatures. The flush membrane can be easily cleaned for long term reliability and outstanding performance. An optional weldable boss is available to ensure flush-face installation of transmitter to tanks and pipe-work.

An optional ATEX and IECEx approved version of this product is available for explosion protection for flammable gases (zone0), dusts (zone 20) and mining areas (group I M1).

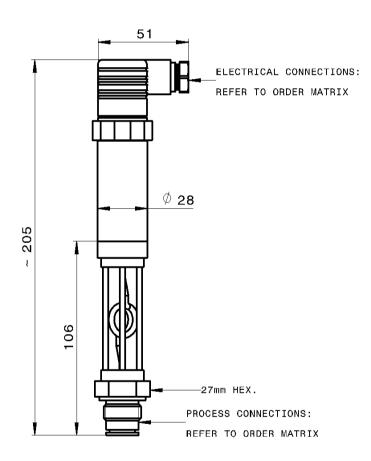
Typical applications include:

- Food processing
- Pharmaceutical
- Petrochemical





Dimensions (in mm)



Electrical Connection

	Ma	V	/DC
Pin No.	2 wire	4 wire	3 wire
1	+supply	-supply	common
2	4-20mA signal	+supply	+supply
3	N/C	+output	+output
Ţ	to case	ioutput	to case





Technical Data

Туре	PR3860	PR3861	PR3862		
Sensor Technology:		Ceramic	: Thick Film		
Output Signal:	4-20 Ma (2 wire)	0-5 V (4 wire)	0-10 V (4 wire) (3 wire available on request)		
Supply Voltage:	13-36 VDC	13-30 VDC	13-30 VDC		
Pressure Reference:		G	auge		
Protection of Supply Voltage:	Protected against supply voltage reversal up to 50 V				
Standard Pressure Ranges (bar):	0 - 10 bar; $0 - 25$ bar; $0 - 60$ bar; $0 - 100$ bar; $0 - 250$ bar; $0 - 400$ bar (other options available)				
Standard Pressure Ranges (psi):	0-20 psi; 0-6	0 psi; 0-150 psi; 0-350 psi; 0-1500 բ	osi; 0-3600 psi; 0-5800 psi (other options available)		
Overpressure Safety:		1.5x a	ıll ranges		
Load driving Capability:	4-20 mA: RL < [U		tage (UB) of 36V max. load (RL) is 1150Ω); 2mV/V: n/a; : 0-10V: max load RL > 10KΩ		
Accuracy NLHR:	≤ ±0.3 % of span BFSL				
Zero Offset & Span Tolerance:	±1.0 %FS at room temperature; ±5 %FS (approx.) adjustment with easy access trimming potentionmeters on amplified versions only				
Operating Ambient Temperature:	-20°C to +85°C (-4°F + 185°F)				
Operating Media Temperature:	0°C TO +205°C ('+32°F T		to $\pm 250^{\circ}$ C ($\pm 32^{\circ}$ F TO $\pm 482^{\circ}$ F) with optional o-ring (sensor and ated from media temperature)		
Storage Temperature:		+5°C to +40°C (+41°F to +104	°F) Recommended Best Practice		
Temperature Effects:	±2.5 %FS total error band for -20°C to +70°C. Typical thermal zero and span coefficients ±0.04 %FS/°C				
ATEX/IECEx Approval (4- 20 mA version only):	EX II 1 G Ex ia IICT4 GA (Zone 0) Ex II 1 D Ex ia IIIC T135 C Da (Zone 20)		n/a		
ATEX/IECEx Saftey Values:	Ui = 28 V / Li = 119mA / Pi = 0.65 W / Li = 0.1 pH		n/a		
Electromagnetic Campatibility:	Emissions: BS EN61000-6-3; Immunity: BS EN61000-6-2; Certification: CE/UKCA Marked				
Insulation Resistance:		> 100 Mg	Ω @ 50 VDC		
Wetted Parts:		SAE 316L s	stainless steel		
Pressure Media:	All fluids compatible with SAE 316L stainless steel				
Pressure Connection:	1/2" BSP male (G1/2) with standard integral viton (FKM) o-ring seal and flush SAE 316L stainless steel diaphragm. O-ring se is for service temperaature up to max. 205C. An alternative o-ring material can be provided for service up to 250°C (changed accessory)				
Electrical Connection:	Mating socket EN175301-803 Form A (ex DIN43650) rated IP65 with PG9 cable entry (other options available)				
Net. Weight (Kg):		0	.8 kg		





Order Matrix

Output	Wires	Туре	Electrical Connection/Options	Pressure Range	Process Connection	Option
4-20 mA	2	PR3860				
0-5 Vdc	4	PR3861				
0-10 Vdc	4	PR3862				
Electrical Connections/0	Options					
Din plug and socket			-			
Cable outlet 1m screene	ed .		A			
M12 connector			В			
Cable outlet 1m screene	d IP67 prot	ection	С			
ATEX/IECEx certified wit	h DIN EN17	'5301 plug sock	et EX			
Pressure Range in bar						
0-10 bar				0010		
)-25 bar				0025		
0-60 bar				0060		
0-100 bar				0100		
0-250 bar				0250		
0-400 bar				0400		
Process Connection						
1/2" BSP flush diapragm	male				ВА	
Options						

Order Number Example PR3860-0400BA-HT

For options not listed please contact the sales team

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