



### **APR3860**

High Temperature Flush Diaphragm Pressure Transmitter

#### FEATURES

- 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













#### **SPECIFICATIONS**

The APR3860 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 APR3860 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).

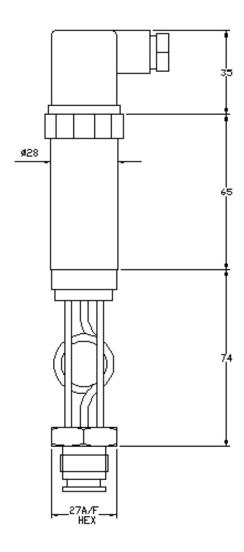
### Typical applications include:

- Food processing
- Pharmaceutical
- Petrochemical



# DIMENSIONS (in mm)





## **ELECTRICAL CONNECTIONS**

	mA	VDC	
PIN No.	2 wire	3 wire	4 wire
1	+supply	common	-supply
2	4-20mA signal	+supply	+supply
3	N/C	+output	+output
+	to case	to case	-output



## TECHNICAL DATA

Туре	APR3860	APR3861	APR3862				
Sensor Technology:		Ceramic <sup>-</sup>	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:		Ga	uge				
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; 0-60 psi; 0-150 psi; 0-350 psi; 0-1500 psi; 0-3600 psi; 0-5800 psi (other options available)						
Overpressure Safety:	1.5x all ranges						
Load driving Capability:	4-20 mA: RL < [UB-13V] / 20mA (e.g. with supply voltage (UB) of 36V max. load (RL) is 1150); $2mV/V$ : n/a; 0-5: max load RL > 5 K: 0-10V: max load RL > 10K						
Accuracy NLHR:		< +0.3 % o	f span BFSL				
Zero Offset & Span Tolerance:	+1.0 %FS at room temperature (PR3101: +0.2 mV); 5 %FS (approx.) adjustment with easy access trimming potentionmeters on amplified versions only						
Operating Ambient Temperature:	-20C to +85C (-4F + 185F)						
Operating Media Temperature:	0C TO +205C ('+32F		'+250C (+32F TO +482F) with optional o-ring (sensor and ted from media temperature)				
Storage Temperature:		+5 to +40C (+41F to +104F)	Recommended Best Practice				
Temperature Effects:	+2.5 %FS tot	cal error band for -20 to +70C. Typica	al 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: EN61000-6-3; Immunity: EN6100-6-2; Certification: CE Marked						
Insulation Resistance:	> 100 M @ 50 VDC						
Wetted Parts:	SAE 316L stainless steel						
Pressure Media:		All fluids compatible wit	h 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 seal is for service temperaature up to max. 205C. An alternative o-ring material can be provided for service up to 250C (changed accessory)						
Electrical Connection:	Mating socket EN1	.75301-803 Form A (ex DIN43650) ra	ated IP65 with PG9 cable entry (other options available)				
Net. Weight (Kg):		3.0	3 kg				



### ORDER MATRIX

Output	Wires	Туре	Electrical Connection/Options	Pressure Range	Process Connection	Options
4-20 mA	2	APR3860				
0-5 Vdc	4	APR3861				
0-10 Vdc	4	APR3862				
Electrical Connections/Op	otions					
Din plug and socket						
Cable outlet 1m screened			A			
M12 connector			В			
Cable outlet 1m screened IP67 protection			С			
Pressure Range in bar						
				0010		
1-75 nar				0010 0025		
				0010 0025 0060		
0-60 bar				0025		
0-60 bar 0-100 bar				0025 0060		
0-25 bar 0-60 bar 0-100 bar 0-250 bar 0-400 bar				0025 0060 0100		
0-60 bar 0-100 bar 0-250 bar 0-400 bar Process Connection				0025 0060 0100 0250		
0-60 bar 0-100 bar 0-250 bar	nale			0025 0060 0100 0250	ВА	
0-60 bar 0-100 bar 0-250 bar 0-400 bar Process Connection	nale			0025 0060 0100 0250	ВА	

Order Number Example

For options not listed please contact the sales team

**DISCLAIMER:** We reserve the right to change specifications without prior notice. specifications without prior notice. All manufactured products are calibrated with precision calibration equipment that is traceable to national measurement standards.

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