

### **FEATURES**

- Rugged housing
- Highly configurable: wide selection of pressure ranges, pressure connections and electrical terminations
- Output: select voltage or current versions
- Available with externally adjustable zero and span access

#### **TYPICAL USES**

- Test stands
- Compressor control
- Hydraulic systems
- Process automation
- Pump and pneumatic systems control

### PERFORMANCE SPECIFICATIONS

Reference Temperature:	70 °F (21 °C)				
Accuracy Class (Includes non-linearity):	$\pm 0.25\%, \pm 0.5\%, \pm 1.0\%$ of span Terminal Point Method includes: hysteresis, non-repeatability, zero offset and span setting errors				
Best Fit Straight Line (BFSL):	$\pm 0.2\%, \pm 0.4\%, \pm 0.5\%$ of span Add $\pm 0.05\%$ for ranges >5,000 psi				
Durability:	>10 million cycles				
Stability:	$\leq \pm 0.25\%$ span/year at reference conditions				
ENVIRONMENTAL SPECIFICATIONS					
Temperature Effects:	-4 °F to 185 °F (-20 °C to 85 °C) $\pm$ 1.0% of span for $\pm$ 0.25% accuracy class $\pm$ 2.0% of span for $\pm$ 0.5% and $\pm$ 1.0% accuracy class				
Temperature Limits:	Storage:         -40 °F to 257 °F (-40 °C to 125 °C)           Operating:         -40 °F to 257 °F (-40 °C to 125 °C)           Compensated:         -4 °F to 185 °F (-20 °C to 85 °C)				
Humidity Effects:	0-95% R.H. non-condensing (no effects) 0-100% R.H. with welded enclosure (no effects)				
FUNCTIONAL S	PECIFICATIONS				
Response Time:	<2ms				
Pressure Ranges:	Vacuum, gauge, compound and absolute pressure				

Pressure Ranges:	Vacuum, gauge, compound and absolute pressure from 0 to 5 psi through 0 to 10,000 psi (Bar ranges available)					
Shock:	100g Peak, 11ms					
Random Vibration:	10g RMS, 20-2,000Hz					
Sweep Vibration:	50-2,000Hz, 5g peak					
Position Effect:	±0.02%, typical					
Overpressure: ≤300 psi ≥500 to ≤10,000 psi	Proof: 1.5 X Range 1.2 X Range	Burst: 2 X Range 1.5 X Range				

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A2 Pressure Transmitter

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#### **KEY BENEFITS**

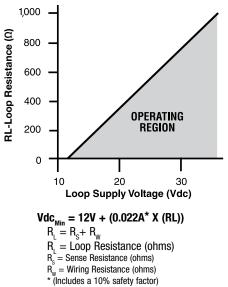
- Provides the user with accurate, reliable, and stable output data
- Board microprocessor provides extremely linear and precise performance over the entire pressure and temperature range

ELECTRICAL SPECIFICATIONS					
Circuit Protection:	Reverse polarity and mis-wire protected				
Insulation Resistance (Circuit Case):	100 MΩ @ 30 Vdc				
Output Signal: 0-5 Vdc (3 Wire) 0-10 Vdc (3 Wire) 1-5 Vdc (3 Wire) 1-6 Vdc (3 Wire) 4-20 mA (2 Wire)	Supply Vo Min. 12 Vdc 14 Vdc 10 Vdc 10 Vdc 12 Vdc	Itage: (unregulated) Max. 36 Vdc 36 Vdc 36 Vdc 36 Vdc 36 Vdc 36 Vdc			



Electrical Terminations:	See ordering code or	n page 3 for options				
PHYSICAL SPE	CIFICATIONS					
Environmental Rating:	ntal IP65, NEMA 4X					
WETTED MATER	WETTED MATERIAL					
Diaph	ıragm	Process Connection				
316L Stainless s	steel or 17-4PH®	316L Stainless Steel				
NON-WETTED	NON-WETTED					
	Housing					
	304 Stainless steel					

### LOAD LIMITATIONS 4-20 mA OUTPUT ONLY





ORDERING CODE Example:	A2	s	Α	M01	05	F2	50#	G	-X6B
Model									
A2 - Industrial pressure transmitter	A2								
Enclosure									
S - Basic Z - Zero and span access		S							
Y - Welded with zero & span access									
W - Welded w/out zero & span access									
Accuracy/Temp. Effects									
A - 0.25%/≤1.0% (-20 °C to 85 °C)			A	-					
B - 0.50%/≤2.0% (-20 °C to 85 °C) C - 1.0%/≤2.0% (-20 °C to 85 °C)									
Pressure Connection									
F01 - 1/8 NPT Female									
F02 - 1/4 NPT Female									
F04 - ½ NPT Female									
F09 - %=18 (¼)-Female (Aminco®) FRW - %=20 SAE-Female									
MEK - 7/16-20 SAE-Pennale									
MG2 - G¼ Male									
MG4 - G1/2 Male									
M01 - 1/8 NPT Male				M01					
M02 - 14 NPT Male									
M04 - 1/2 NPT Male VM2 - VCR® process connection 1/4" VCR® gland w/ 9/16-18 Male nut									
VF2 - VCR <sup>®</sup> process connection 1/4 VCR <sup>®</sup> gland w/ 9/16-18 Female nut									
S15 - Sanitary seal 11/2" Tri-Clamp®									
S20 - Sanitary seal 2" Tri-Clamp®									
Output Signal									
05 - 0-5 Vdc				_	05				
10 - 0-10 Vdc 15 - 1-5 Vdc									
16 - 1-6 Vdc									
42 - 4-20 mA									
Electrical Termination							_		
Integral Cable (Pigtail)						50	-		
F2 - 3' shielded cable (available with enclosure code or S, Z) P1 - Specify length (available with enclosure code or S, Z)						F2	-		
Hirschmann <sup>®</sup> Style Form A DIN 43650-A							-		
DN - W/o mating conn. (available with enclosure code or S, Z)							-		
D0 - With mating conn., no cable (available with enclosure code or S, Z)							_		
D2 - With mating conn., 3' cable (available with enclosure code or S, Z)							-		
D1 - With mating conn., specify length (available with enclosure code or S, Z) 4-Pin Bendix® Style							-		
B4 - W/o mating conn. (available with enclosure code or S, Z, W, Y)							-		
H1 - With mating conn., no cable (available with enclosure code or S, Z, W, Y)									
L1 - With mating conn., 3' cable (available with enclosure code or S, Z, W, Y)							-		
P2 - With mating conn., specify length (available with enclosure code or S, Z, W, Y) ½ NPT-M Conduit Shielded Cable (NEMA Rating not valid for ranges ≤300 psi							-		
C1 - 3' Shielded cable (available with enclosure code W, Y)							-		
C6 - 15' Shielded cable (available with enclosure code W, Y)							-		
C7 - 30' Shielded cable (available with enclosure code W, Y)									
P7 - Shielded cable specify length (available with enclosure code W, Y)							-		
<sup>1</sup> / <sub>2</sub> NPT-M Conduit Flying Leads (NEMA Rating not valid for ranges ≤300 psi) C2 - 3' Flying leads (available with enclosure code W, Y)							-		
C5 - 10' Flying leads (available with enclosure code W, Y)							-		
M12 Threaded									
EW - W/o mating conn. (available with enclosure code or S, Z)									
E0 - With mating conn. no cable (available with enclosure code or S, Z)									
E2 - With mating conn. 3' cable (available with enclosure code or S, Z)							-		
E1 - With mating conn., specify length (available with enclosure code or S, Z) Pressure Range (see range table on page 4)							-		
50# - 50 psi							50#		
Measurement Type									
G - Gauge pressure								G	_
A - Absolute pressure									×
Option (if including an option(s) must include an "X") CL - Non-standard calibration									X
K8 - 17-4PH® Stainless steel sensor material									
6B - Cleaned for oxygen service									6B

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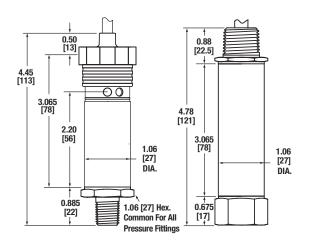
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### **DIMENSIONS** in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

### Heavy Industrial (Enclosure S, Z, Y, W)



RANGE TABLE							
E	Range	Code	Notes				
Vacuum	0 psi/-14.7 psi	0#&vac	17-4PH® SS sensor not available, gauge pressure only				
	15 psi/-14.7 psi	15#&vac	17-4PH $^{\ensuremath{\text{\circle*{1.5}}}}$ SS sensor not available, gauge pressure only				
ompound	30 psi/-14.7 psi	30#&vac	$17\text{-}4\text{PH}^{\odot}\text{SS}$ sensor not available, gauge pressure only				
Comp	45 psi/-14.7 psi	45#&vac	Gauge pressure only				
	60 psi/-14.7 psi	60#&vac	Gauge pressure only				
	1.5 psi	1.5#	17-4PH $^{\otimes}$ SS sensor not available, gauge pressure only, available with accuracies B or C only				
	5 psi	5#	17-4PH $^{\ensuremath{\oplus}}$ SS sensor not available, gauge pressure only				
	10 psi	10#	17-4PH $^{\ensuremath{\oplus}}$ SS sensor not available, gauge pressure only				
	15 psi	15#	17-4PH® SS sensor not available				
	30 psi	30#	17-4PH® SS sensor not available				
	50 psi	50#					
	60 psi	60#					
	75 psi	75#					
	100 psi	100#					
	150 psi	150#					
	200 psi	200#					
sure	300 psi	300#					
Press	500 psi	500#					
Positive Pressure	750 psi	750#					
Po	1,000 psi	1000#					
	1,500 psi	1500#					
	2,000 psi	2000#					
	3,000 psi	3000#					
	5,000 psi	5000#					
	6,000 psi	6000#					
	7,500 psi	7500#					
	10,000 psi	10000#	17-4PH <sup>®</sup> SS sensor required				