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NASHCROFT

Type T2 – High Performance Pressure Transducer for General Industrial Applications

APPLICATIONS:

A new Ashcroft pressure transducer to meet demanding requirements in general industrial applications:

- Process automation
- Compressor control
- Hydraulic systems
- Engine monitoring
- Pump control
- Pneumatics
- Refrigeration equipment
- Presses
- Machine Tools
- Other general industrial applications

PERFORMANCE SPECIFICATIONS

Ref. Temperature, 21°C ±1°C (70°F, ±2°F) Accuracy:

Static Accuracy Class: ±0.25% of span (BFSL Method) including non-linearity, hysteresis, nonrepeatability at reference temperature

Temperature Effect:

-20°C to 85°C <±1% of Span - Total Error Band -40°C to -20°C <±1.5% of Span - Total Error Band 85°C to 125°C <±1.5% of Span - Total Error Band Total Error Band includes the combined effects of non-linearity (Terminal Point Method), hysteresis, non-repeatability, temperatureand zero offset and span setting errors. For higher performance availability consult factory

Stability: Less than ±0.25% span/year Durability: Tested to 50 million cycles

ENVIRONMENTAL SPECIFICATIONS

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Com	no	nont	hod	

Compensated	-40 to 125°C	(-40 to 257°F)		
Operating	-40 to 125°C	(-40 to 257°F)		
Storage	-40 to 125°C	(-40 to 257°F)		
Humidity: 0 to 100% R.H., no effect				

FUNCTIONAL SPECIFICATIONS

Select from over 25 pressure ranges starting at 30 psi and running through 20,000 psi. Compound (vacuum & pressure) ranges are also available, see below.

Overpressure (F.S.):	Proof	Burst	
750 psi & below	200% FS	1000% FS	
1500 psi	200% FS	500% FS	
3000 psi	200% FS	500% FS	

TO ORDER THE T2 PRESSURE TRANSDUCER:

Important features	include:
0.050/	

0.25% accuracy class

Ranges 30 psi through 20,000 psi

- Broad temperature capability
- All-welded pressure construction
- Proven polysilicon thin film sensor
- Precision ASIC based electronics
- High EMI/RFI immunity rating
- Highly configurable
- Voltage and current outputs
- Choice of electrical connections
- · Optional panel meter digital display – see Ashcroft model 2269

5000 psi	150% FS	500% FS
7500 psi	120% FS	500% FS
10,000 psi	120% FS	240% FS
20,000 psi	120% FS	240% FS
Vibration: Pandom vibra	(20 a) ovo	r tomporatura

Vibration: Random vibration (20 g) over temperature range (-40° to 125°C). Exceeds typical MIL. STD. requirements

Shock: 100gs, 6 ms

Drop Test: Withstands 1 meter on concrete 3 axis Response Time: Less than 1 msec

Warm-up Time: Less than 500 msec typical Position Effect: Less than ±0.01% span, typical

ELECTRICAL SPECIFICATIONS

Output Signals Avai	lable:	Supply
Voltage Output	Excitation	Current
0-5 Vdc, 3 wire	9-36 Vdc	5mA
0-10 Vdc, 3 wire	14-36 Vdc	5mA
1-5 Vdc, 3 wire	9-36 Vdc	4mA
1-6 Vdc, 3 wire	9-36 Vdc	4mA
Ratiometric Output		
0.5-4.5 Vdc, 3 wire	5 Vdc ±0.5 Vdc	3.5mA
Current Output		
4-20mA, 2 wire	9-36 Vdc	
Reverse Polarity &	Miswired Protect	ed: Yes
Insulation Breakdov	vn Voltage: 100 \	/ac
Insulation Resistance	e: Greater than 10	0 megohms
at 100 Vdc		0
CE Compliance: Per	EN 61326: 1997	
+ A1: 1998 + A2: 200		Industrial)





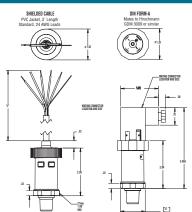
Fire retardant to UL94 V1

Available Process Connections (Male): 1/8 NPT, 1/4 BSP, 1/4 NPT, G1/4 B, 7/16-20 UNF-2A For other connections consult factory Ingress Rating: Enclosure meets NEMA 4X, IP65

ELECTRICAL TERMINATION

- Pigtail: 3 feet of shielded cable, PVC jacket, 24 AWG leads
- DIN 43 650-A
- Bendix style 4 pin, PTO 2A-8-4P or similar
- M12 x 1, 4 pin, Circular style

DIMENSION DRAWINGS



M12 and Bendix style termination designs share similar dimensions to those shown above.

T 2 7	\square \square			G	X
Type Configuration (T2) Accuracy ±0.25% Static Accuracy Class (BFSL) ±1.00% Total Error Band -20°C to +85°C ±1.50% Total Error Band -40°C to -20°C, 85°C to 125°C Pressure C M01 ½ NPT-n M02 ½ NPT-n M22 ½ HPT-n MEX ¼-20 S, MS2 ¼-19 BS MG2 G ¼ B m Consult Factor	nale nale AE-male ¡P male	Electrical Connection DIN 43 650-A - Males to Hirschmann GDM 3009 or similar DN - no mating conn. DD - w/mating conn., no cable D2 - w/mating conn., 35 shielded cable M12 - Mates to Hirschmann 933 172-100 or similar EW = no mating conn. no cable E2 - w/mating conn. no cable E2 - w/mating conn. no cable E2 - w/mating conn. no cable E4 - mortaing conn. no cable E4 - mortaing conn. no cable E4 - mortaing conn. no cable E4 - w/mating conn. no cable E4 - w/mating conn. no cable E5 - w/mating conn. no cable E4 - w/mating conn. 3° shielded cable E7 = w/mating conn. 3° shielded cable E1 = w/mating conn. 3° shielded cable cable E3 = w/3° cable length E3 = w/3° cable length	500# = 500 psi 750# = 750 psi 1000# = 1000 psi 1500# = 1500 psi 2000# = 2000 psi 3000# = 3000 psi 5000# = 7500 psi 27500# = 7500 psi 10000# = 10000 psi	Measurement Type G = Gauge pressure, vented housing For sealed housing (PSIS) consult factory Compound Ranges 30# & vac = 30 psi/-14.7 psi 45# & vac = 45 psi/-14.7 psi 60# & vac = 60 psi/-14.7 psi 100# & vac = 100 psi/-14.7 psi 100# & vac = 150 psi/-14.7 psi 100# & vac = 150 psi/-14.7 psi 100# & vac = 300 psi/-14.7 psi	Optional X-Variations Consult factory for available options

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ZAN SIA

Sensor Material: 17-4PH SS Housing: 20% Glass Reinforced Nylon,