

Pressure Transducers and Transmitters - continued

Transducers & Transmitters - PTE2000 - continued

Stainless Steel Housing - continued

Stability (1 year)	±0.5% FS output typ.		
Zero pressure offset	1.0V ± 100mV	4.0mA ± 100µA	
Full scale span	5.0V ± 50mV	16.0mA ± 200µA	
Full scale output	6V	20.0mA	
Supply voltage	12 to 30V dc	12 to 36V dc	
Operating Pressure Range	Proof Pressure	Burst Pressure	1 to 6V Output Mftrs. List No.
0 to 5 psig	20	1000 psig	PTE2005G1A
0 to 15 psig	30	1000 psig	PTE2015G4A
0 to 30 psig	60	1000 psig	PTE2030G1A
0 to 100 psig	200	5000 psig	PTE2100G1A
0 to 300 psig	450	5000 psig	PTE2300G1A
			Order Code
			4 to 20mA Output Mftrs. List No.
			Order Code
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			Order Code

Operating Pressure	Order Code	1+	10+	25+
1 to 6V Output				
0 to 5 psig	704-9092	16,242.00	13,793.00	--
0 to 30 psig	678-570	16,083.00	15,176.00	--
0 to 100 psig	678-582	16,242.00	13,654.00	--
0 to 300 psig	678-594	16,083.00	14,142.00	--
4 to 20mA Output				
0 to 5 psig	704-9109	16,242.00	13,793.00	--
0 to 15 psig	678-600	16,242.00	13,793.00	--
0 to 30 psig	678-612	16,081.00	13,410.00	13,391.00
0 to 100 psig	678-624	16,242.00	13,793.00	--
0 to 300 psig	678-636	16,081.00	13,410.00	13,391.00

Transducers & Transmitters - BTE6000

Stainless Steel, Flush Diaphragm and High Pressure



High Pressure
H = 35, W = 48, D = 160
(including connector)
Dia. = 27, Thread = 1/2" BSP

Flush
H = 35, W = 48, D = 135
(including connector)
Dia. = 27, Thread = 3/4" BSP

- Pressures up to 350 bar
- Flush mount versions
- Designed for use with any corrosive or non-corrosive media compatible with 303 stainless steel
- 1 to 6V and 4 to 20mA outputs
- Field interchangeable
- Protected against reverse polarity and sealed to IP65
- Suitable for harsh environments
- Flush diaphragm type transducers avoid the problem of particulate build up and minimise dead volume
- Flush diaphragm types are particularly suitable in the food industry and applications using thick liquids and semi-solids

Fully temperature compensated, signal conditioned transducers offering flush mounted stainless steel diaphragms for gauge and absolute pressure and DIN standard 'manometer thread' versions for high pressure.

	1 to 6V Output	4 to 20mA Output
Supply voltage	12 to 30V dc	12 to 36V dc
Zero offset	1.0V ± 150mV	4.0mA ± 150µA
Full scale span	5.0V ± 100mV	16.0mA ± 100µA
Operating temperature	-40°C to +100°C	
Linearity and hysteresis	± 0.2% FSO nom.	
Repeatability	± 0.1% FSO nom.	
Thermal stability (0 to +70°C)	0.05% FSO/°C	
Long term stability (1 year)	± 0.2% FSO	
Proof pressure	2 rated pressure	

Operating Pressure	Mftrs. List No.	Order Code	Mftrs. List No.	Order Code
Flush diaphragm style				
0 to 1 Bar A			BTE6001A4-FL	678-697
0 to ±1 Bar G	BTE6N001G1-FL	678-650	BTE6N001G1-FL	678-703
0 to 5 Bar G	BTE6005G1-FL	678-661	BTE6005G4-FL	678-715
0 to 10 Bar G	BTE6010G1-FL	678-673	BTE6010G4-FL	678-727
0 to 16 Bar G			BTE6016G4-FL	678-739
High pressure style				
0 to 35 Bar A			BTE6035A4.	700-9021
0 to 70 Bar A			BTE6070A4	678-764

Operating Pressure	Order Code	1+	10+	25+
0 to ±1 Bar G	678-650	17,735.00	14,943.00	14,523.00
0 to 5 Bar G	678-661	17,734.00	14,795.00	13,878.00
0 to 10 Bar G	678-673	17,735.00	16,247.00	--
Flush Diaphragm, 4 to 20mA Output				
0 to 1 Bar A	678-697	17,911.00	14,064.00	14,044.00
0 to ±1 Bar G	678-703	17,911.00	14,064.00	13,192.00
0 to 5 Bar G	678-715	17,735.00	14,534.00	--

Operating Pressure	Order Code	1+	10+	25+
Flush Diaphragm, 4 to 20mA Output				
0 to 10 Bar G	678-727	17,911.00	14,064.00	14,044.00
0 to 16 Bar G	678-739	17,911.00	14,064.00	14,044.00
0 to 350 Bar A	678-752	17,734.00	14,795.00	13,878.00
0 to 35 Bar A	700-9021	17,911.00	14,064.00	14,033.00
0 to 70 Bar A	678-764	17,734.00	14,795.00	13,878.00

Barometric Pressure Transducer



Connections:
1 +V_s H=32 (including ports)
2 GND W=30, D=60
3 V_{out} Fixing centres 52.4mm, 3.5mm dia.

- Transducer covers barometric pressures 800mBar to 1100mBar
- Calibrated and signal conditioned 0 to 5V output
- Applications in barometry, weather stations, absolute pressure compensation in sensitive equipment

The transducer provides a true 0 to 5V output over the barometric pressure range. Internal voltage regulation allows the device to operate from a single rail power supply between 7 and 24V. A potentiometer is provided to adjust for changes in altitude. The transducer is designed for use with non-corrosive, non-ionic media eg. dry air and gases.

Reference conditions	V _s = 8V, T (ambient) = 25°C, RL = 100KΩ
Supply voltage	7 to 24V dc
Operating pressure	800 to 1100 mBar
Proof pressure	2 Bar
Voltage output (span)	5V± 500mV
Operating temperature	-40°C to +85°C
Compensated range	-10°C to +60°C
Non-linearity and hysteresis	0.1% FSO (max.)
Repeatability	0.2% FSO (typ.)
Temperature shift (-10°C to +60°C)	0.3% FSO/10°C (max)
Response time	1ms (typ.)
Long term stability	0.1% FSO (typ.)

Mftrs. List No. 144SC0811-BARO

212180

Operating Pressure	Order Code	1+	10+	25+
800 to 1100 mBar	540-894	11,164.00	8,739.00	8,754.00

Miniature Transducers and Transmitters



Stainless Steel — 0-100mV/0-5Vdc/4-20mA Output — 21R Series



Body L = 76 (excl. connector),
Dia = 17. Fitting = G1/4
(1/4" BSP) male port

- Three output options - 0 to 100mV and 0 to 5V dc transducers, 4 to 20mA transmitters
- 316L stainless steel wetted parts, compatible with most corrosive media
- Good repeatability and linearity, and negligible hysteresis
- Fitted G1/4 male port with integral pressure seal
- Supplied with mating mPm micro-connector
- Sealed to IP65

Precision piezo-resistive silicon sensor available to measure gauge or absolute pressures.

Signal output	0-100mV ±0.1%	0-5V dc ±1%	4-20mA±1%
Zero balance	±0.1%	1%	1%
Supply	8-28V dc unregulated (4 wire)	8-28V dc (3 wire)	8-28V dc (2 wire)
Non-linearity and hysteresis	0.2% max.	0.5% max.	0.5% max.
Total error band★	2.5 max.	2.5% typ., 4% max.	2.5% typ., 4% max.
Operating temperature	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C
Over-pressure	2 range or 1100 bar, whichever is less		

★Total error band includes hysteresis, zero and span effects, temperature effects and repeatability

212335

Output	Order Codes	Price Each
Pressure Range		
0 to 1 Bar G	709-9460 710-0711	13,360.00 12,543.00 11,269.00
0 to 2.5 Bar G	709-8558 709-9472 710-0723	11,274.00 11,514.00 10,534.00
0 to 10 Bar G	709-8560 709-9484 710-0735	10,407.00 9,885.00 9,576.00
0 to 25 Bar G	709-9496 710-0747	9,698.00 9,211.00 8,427.00
0 to 100 Bar G	709-9502 710-0759	9,698.00 9,211.00 8,427.00
0 to 250 Bar G	709-8595 709-9514 710-0760	9,698.00 9,211.00 8,427.00
0 to 400 Bar G	709-9526	9,698.00 9,211.00 8,427.00
0 to 1000 Bar G	709-8613	13,854.00 13,033.00 12,347.00
0 to 1 Bar A	709-9540 710-0796	13,360.00 12,543.00 11,269.00
0 to 2.5 Bar A	709-9551	13,360.00 12,543.00 11,269.00