

## Brandt Transducers, I/P

- Accuracies of  $\pm 0.15\%$  to  $\pm 0.25\%$  of Span
- Field Proven "E-Pi" Technology is Unaffected by Vibration, Shock, or Mounting Position
- Air consumption of 0.04 SCFM and Output Capacity of 4.0 SCFM
- Intrinsically Safe and Explosion-Proof Approvals
- Rugged NEMA 4X and IP/65 Enclosure

Brandt Instrument's STD5000 and STD6000 Series of current to pressure (I/P) transducers represent a new standard in I/P technology. The rugged NEMA 4X housing, compact size, and revolutionary "Plug-In E-Pi Module" coupled with Brandt's field proven technology and affordable price, make them the most accurate, reliable, and simplest I/Ps to install, operate, and maintain in the industry.

The E-Pi transducer uses minimal electrical energy and air consumption to convert an electronic input signal 4–20 mA to a proportional pneumatic output signal of 3–15 PSIG. Overall performance, accuracy, and repeatability are further enhanced by employing an internal feedback network whose speed and resolution allow the I/P to quickly respond to input changes.

STD5131



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### Specifications

	STD5000	STD6000
Certifications:	Factory Mutual, Canadian Standards Association, and CENELEC Approved for Intrinsically Safe operation	Factory Mutual, Canadian Standards Association, and CENELEC Approved for Intrinsically Safe and Explosion-Proof Installations
Input:	4–20 mA Intrinsically Safe approved by Factory Mutual, Canadian Standards, and CENELEC	4–20 mA Intrinsically Safe approved by Factory Mutual, Canadian Standards, and CENELEC
Input Impedance:	3.8 VDC + 5 ohm (195 ohm load at 20 mA)	3.8 VDC + 5 ohm (195 ohm load at 20 mA)
Output:	3–15 PSIG	3–15 PSIG
Output Capacity:	4.0 SCFM @ 20 PSIG	4.0 SCFM @ 20 PSIG
Supply Pressure:	Regulated 20 PSIG (+10 to -3 PSIG)	Regulated 20 PSIG (+10 to -3 PSIG)
Accuracy:	$\pm 0.15\%$	$\pm 0.15\%$
Repeatability:	$\pm 0.05\%$	$\pm 0.05\%$
Air Consumption:	0.04 SCFM, Steady State Average	0.04 SCFM, Steady State Average
Operating Temperature:	-40 to 150°F	-40 to 150°F
Temperature Effect:	Range: 0 to 150°F: $\pm 0.02\%$ /°F of span Range -40 to 150°F: $\pm 0.04\%$ /°F of span	Range: 0 to 150°F: $\pm 0.02\%$ /°F of span Range -40 to 150°F: $\pm 0.04\%$ /°F of span
EMI/RFI:	Tested and found to comply with European CE Conformity Standards	Tested and found to comply with European CE Conformity Standards
Enclosure:	Internally purged NEMA 4X/IP65, cast/machined aluminum with power coat epoxy. Size: 4.188" x 3.5" x 4.1" Weight: 2.5 pounds	Internally purged NEMA 4X/IP65, cast/machined aluminum with power coat epoxy. Size: 4.188" x 3.5" x 4.1" Weight: 2.5 pounds
Connections:	Supply Pressure Port: One, 1/4" NPTF (Supply) Output Ports: Two, 1/4" NPTF Electrical: Two, 1/2" Conduits	Supply Pressure Port: One, 1/4" NPTF (Supply) Output Ports: Two, 1/4" NPTF Electrical: Two, 1/2" Conduits
Mounting:	Valve yoke mount compatible Pipe mount available	Valve yoke mount compatible Pipe mount available

### Accessories

Order #	Description	Price
MPFP45-OPTN-TSW	Stainless Steel Tag (Wire Mount)	
MPFP45-OPTN-TSD	Stainless Steel Tag (Engraved)	
MPFP82-2022-00	FAS2022 Filter Regulator (Not Mounted)	
MPGA21-1200-30	Output Gauge, 0–30 PSI 1/4" CBM Mounted	
MPGA21-1200-60	Output Gauge, 0–60 PSI 1/4" CBM Mounted	
MPSA44-3005-00	Miniature Male Test Calibration Plug (Included)	
MPSA45-8502-XX*	Fixed Orifice Replacement Kit (Package of 10)	

### Ordering Information

To Order—Insert Number Code for Each Letter to Select Catalog Number. Order Example: MPSTD5-1-3-1-2

A	B	C	D	E	F
<b>A Basic Unit</b>	NEMA-4X Explosion, Dust Ignitionproof, NEMA-4X, with Jack		Price & Adders		
<b>B Input</b>	4–20 mA, Intrinsically Safe		N/C		
1	10–50 mA				
2	Other; Consult Transcat				
<b>C Output</b>	6–30 PSIG	N/C	4	1–17 PSIG	
1	3–27 PSIG	N/C	5	Other	Consult
2	3–15 PSIG	N/C	6	0.2–1 BAR	N/C
3					
<b>D Supply Pressure</b>	Standard Supply Pressures		N/C		
1	High Pressure Supply				
H					
<b>E Options</b>					
1	Pipe mount for 2.5" Pipe				
2	Jack Plug (standard on STD6000)				
3	Direct Only				
4X	Mounted Filter Regulator FAS2022				
5	Valve Mount Kit				
6X	Mounted Output Gauge				
	0–30 or 0–60 PSI				

NOTE: X = (L) left or (R) right hand mount. Specify when ordering.

\*Replace XX with 01 for 1–17 PSI Outputs  
03 for 3–15 PSI, 3–27 PSI, and 2–1.0 BAR  
06 for 6–30 PSI Outputs

Pressure/Flow Test Instruments