

## INDUSTRIAL GRADE PRESSURE TRANSDUCER

### Model 111, 211,311

#### FEATURES:

- Rugged, welded, SST construction
- Strain gauge technology
- High accuracy,  $\pm 0.5\%$  FSO standard,  $\pm 0.1\%$  FSO optional
- Resistant to pressure spike
- Small package size
- mV/V, 0-5Vdc, 4 to 20mA output

#### PRESSURE RANGES:

- 0-5 thru 0-10,000 PSI, PSIG, PSIS, PSIA & PSIV  
Compound ranges available.

#### TYPICAL APPLICATIONS:

- Stamping Presses
- Compressors and pump
- Hydraulic usage
- Test stands
- Die Casting
- Rolling mills



<b>WIRING:</b>	<b>111</b>	<b>211</b>	<b>311</b>
<b>A/1 RED</b>	+POWER	+POWER	+POWER/SIGNAL
<b>B/2 GREEN</b>	+SIGNAL	+SIGNAL	NC
<b>C/3 WHITE</b>	-SIGNAL	NC	NC
<b>D/4 BLACK</b>	-POWER	-POWER/SIGNAL	-POWER/SIGNAL
<b>E/5 BLUE</b>	NC	NC	NC
<b>F/6 BROWN</b>	NC	NC	NC
<b>SHIELD</b>	OPEN	OPEN	OPEN

#### Output at 70°F:

- **Model 111:** 1.0 to 3.0mV/V – 3.5-15 Vdc excitation
- **Model 211:** 0-5 Vdc – 9.0-36 Vdc excitation
- **Model 311:** 4-20mA – 9.0-36 Vdc excitation

#### Accuracy:

Static error band includes Hysteresis, Non-Linearity, Non-Repeatability

- Option B:  $\pm 0.25\%$  BFSL
- Option C:  $\pm 0.15\%$  BFSL

Resolution: Infinite

#### Zero Balance and FSO:

- $\leq \pm 2\%$  FSO at 70°F for each

#### Insulation Resistance:

- $> 10$  megohms at 50 Vdc & at 70°F

#### Temperature Limits:

- Compensated: 70°F to 170°F (21°C to 76°C)
- Operating: -20°F to 185°F (-28°C to 85°C)
- Storage: -65°F to +250°F (-54°C to 121°C)
- Effect on Zero & Span:  $< \pm 2.0\%$  FSO/100°F

#### Standard Connections:

- Process Connection:  $\frac{1}{4}$ " NPT (F)
- Electrical Connection" 36" long Belden 8723, 24 AWG, 4 conductor cable (or equivalent)

#### Electricals:

- Circuit Protection: Reverse polarity protected
- Electrical connection:  
Standard: 3 feet, 22AWG wire leads w/heyco fittings  
Option 1: Bendix PT1H-10-6P  
Option 2:  $\frac{1}{2}$  NPT Conduit End w/3 feet leads

#### Mechanicals:

- Proof Pressure: 2 X FSPR or 20,000 psi, whichever is less.
- Burst pressure: 5 X FSPR or 25,000 psi whichever is less
- Pressure Response: Less than 5ms 10% to 90% FSO
- Weight: 10 oz. nominal, options may increase weight
- Wetted Material: 316 & 17-4 PH SST
- Enclosure Material: 316 SST
- Mounting: May be supported by process piping

Unless otherwise stated, these specifications are the standards to which the units are normally constructed. Upgrades or alterations may be easily and readily accomplished by the standard option code or be discussion with the factory. We invite your inquiry.

