Model 3000 Hydraulic Pressure Transducer

- Standard Pressure Outputs: 4-20 mADC, 0-10 VDC, 0-5 VDC (Optional 1-5 VDC, mV/V)
- 0.25% & 0.08% BFSL (Standard) - 0.04% BFSL includes 16 Point Calibration with Certificate
- ¼” NPT, SAE-4, F-250C process connections standard – contact factory for other options

- Standard ranges from 0-5 psi to 0-40000 psi
- Designed specifically for applications subjected to high shock and vibration
- Duplicate any customer’s process and electrical connection for transparent replacement

The rugged design of the Model 3000 Hydraulic Pressure Transducer makes it the ideal choice when application conditions such as high vibration, shock and temperature extremes are present

FEATURES:
- Proprietary Fused Bond Sensor
- Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds)
- RFI/EMI Protection on every unit
- Unparalleled long-term stability
- External Zero & Span Controls available

REFERENCE DIMENSIONS:

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   Z

L' varies with end connection
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- Ø1.25
- 0.875 HEX

Spectre Corp
7912 Root Road
Suite C/D
North Ridgeville, Ohio 44039

www.SpectreCorp.com
Phone: (440) 250-0616
Fax: (440) 353-0269
E-Mail: info@spectresensors.com

MODEL 3000 REV_C
01/25/16
Model 3000 Hydraulic Pressure Transducer

Ordering Guide: 3000-A-(0-5000PSI)-2-D-5-EC1-OP5

<table>
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<th>A</th>
<th>RANGE 1</th>
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<th>TYPE</th>
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</table>
| A | ¼” MNPT | PSI | 1 | ABSOLUTE | D | 4-20 mA | 25 | 0.25% | EC1 = 36’ PIGTAIL
| B | SAE-4 MALE | BAR | 2 | GAUGE | E | 0-5 VDC | 08 | 0.08% | EC2 = LARGE DIN 43650, FORM A
| C | OTHER | kPA | 3 | VACUUM | F | 0-10 VDC | 04 | 0.04% | EC3 = MINI DIN 4365, FORM C
| D | 1/8” MNPT | INCHES WC | 4 | SEALED | M | mV/V | E4 | BENDIX PTIH-10-6P
| E | F-250C | TORR | 5 | COMPOUND | EC1 = 36” PIGTAIL
| 6 | OTHER | | | | | | ECX = OTHER

1 OTHER RANGES AVAILABLE, CONSULT FACTORY
2 CUSTOM PINOUTS/WIRING AVAILABLE
3 PVC STANDARD CABLE JACKET – OTHERS AVAILABLE ON REQUEST

OP5 OPTIONS
- OP1 = NIST CALIBRATION WITH CERTIFICATE
- OP5 = ZERO & SPAN CONTROLS
- OP8 = INTERNAL SHUNT CAL RESISTOR (80% FS)
- OPX = OTHER (SPECIFY)

Performance @ 25 ºC
- Accuracy: < ± 0.25% BFSL to 0.04% BFSL
- Stability (2 year): < ± 0.04% FSO, Typical
- Overpressure Protection: 2X Rated Pressure
- Burst Pressure: 5X or 20000 PSI (lesser)
- Pressure Cycles: > 50 Million
- Temperature Range: -40ºC to +85ºC
- Response: ≤ 5 ms to 90%

Physical Data
- Sensor
  - Wetted Material: 316 SS
  - Housing: 316 SS
- Connections
  - Pressure: ¼” MNPT, SAE-4, F-250C

Environmental Data
- Temperature
  - Operating: -40ºC to 85ºC
  - Storage: -50ºC to 125ºC
- Thermal Limits
  - Compensated Range: 0ºC to 85ºC
  - Thermal Effect Zero: ≤ ±1.5% FS
  - Thermal Effect Span: ≤ ±1.5% FS

Electrical Data
- Excitation: 9-36 VDC (4-20 mA), 13-36 VDC (0-5V, 0-10V)
- Current Consumption: < 5 mADC
- Zero Offset: ≤ ± 0.25% of FS
- Span Tolerance: ≤ ±1.0% of FS
- Output Load: > 10K Ω
- Range Cal Signal: Internal Resistor 100%

4 Accuracy includes non-linearity, hysteresis and non-repeatability