Data Sheet



KS Pressure Transmitter

FEATURES

- 316L stainless steel electropolished wetted 1.5" & 2" tri-clamp diaphragms
- All welded construction
- Voltage and current outputs
- 30 psi to 1000 psi pressure ranges

TYPICAL USES

- Dairy and Food
- Pharmaceutical
- 3A Sanitary Application

| DEDEODUANO | | | | | |
|---|---|---|--|--|--|
| PERFORMANCI | E SPECIFICAT | IONS | | | |
| Reference Temperature: | 68°F (20°C) | | | | |
| Accuracy Class (% Span): | ±1.00% of span Terminal Point Method: Includes non-linearity, hysteresis, non-repeatability, zero offset and span setting errors | | | | |
| Best Fit Straight Line (BFSL): | ±0.75% of span. | | | | |
| Durability: | >10 million cycles | | | | |
| Stability: | $\pm 0.5\%$ span/year at reference conditions | | | | |
| ENVIRONMENT | AL SPECIFIC | ATIONS | | | |
| Temperature Limits: | Storage: Operating: Compensated: | -65°F to 250°F (-54°C to 121°C) -20°F to 180°F (-28°C to 82°C) 30°F to 130°F (-1°C to 54°C) | | | |
| Thermal Coefficients: (ref. 68°F (20°C)) | Accuracy: ZERO SPAN | 1% ±0.04% ±0.04% | | | |
| Humidity Effects: | No performance effect at 95% relative humidity-noncondensing | | | | |
| FUNCTIONAL S | PECIFICATIO | NS | | | |
| Response Time: | <5ms | | | | |
| Pressure Ranges: | 30 to 1,000 psig, compound to 100 psig | | | | |
| Shock Effect: | $<\pm0.05\%$ F.S. effect for 100 g's, 20 ms shock in any axis | | | | |
| | | ffect for 100 g's, 20 ms shock in | | | |
| Vibration Effect: | any axis | rfect for 100 g's, 20 ms shock in ect for 0-2,000 Hz at 20 g's in any | | | |
| Vibration Effect: Position Effect: | any axis <±0.1% F.S. eff | | | | |
| | any axis <±0.1% F.S. eff axis | | | | |
| Position Effect: Overpressure: | any axis $<\pm 0.1\%$ F.S. effaxis $<\pm 0.01\%$ F.S. Proof: 2 X Range | ect for 0-2,000 Hz at 20 g's in any Burst: 8 X Range | | | |
| Position Effect: Overpressure: ≤2,000 psi | any axis $<\pm 0.1\%$ F.S. effaxis $<\pm 0.01\%$ F.S. Proof: 2 X Range PECIFICATION 4-20 mA (2 wire | ect for 0-2,000 Hz at 20 g's in any Burst: 8 X Range | | | |



KEY BENEFITS

- Combines proven thin film technology with diaphragm seal expertise
- Superior long-term stability and repeatability
- 12-20 Ra surface finish with 3A Rating to meet sanitary requirements

| Power Requirements: | 10-36 Vdc, unregulated | | | |
|---|--|--|--|--|
| Circuit Protection: | Reverse polarity and miss-wire protected | | | |
| Insulation Resistance (Circuit Case): | 100 MΩ @ 50 Vdc | | | |
| PHYSICAL SPECIFICATIONS | | | | |
| Environmental Rating: | NEMA 4X | | | |
| Weight: | 13.5 oz (approx. w/ cable) | | | |
| Cable: | 36" PVC, shielded, vented, UL approved | | | |
| Process Connection: | 11⁄2″, 2″ Tri-Clamp® | | | |
| Fill: | USP Grade 99.5% Glycerin fill | | | |

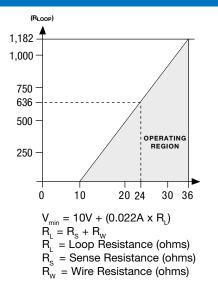
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KS Pressure Transmitter

| WETTED MAT | ERIAL | | | | | |
|-------------------|--------------------|--------------------|--|--|--|--|
| Diap | hragm | Process Connection | | | | |
| | 6L SS RA finish | 316L SS | | | | |
| NON-WETTED |) | | | | | |
| Housing | | | | | | |
| 304 SS | | | | | | |
| OPTIONAL FEATURES | | | | | | |
| Calibration: | Non-standard | | | | | |
| | | | | | | |

LOAD LIMITATIONS 4-20 mA OUTPUT ONLY



| ORDERING CODE | Example: | KS | 7 | S15 | 42 | F2 | 100# | XCL |
|---|-------------------|----|---|-----|----|----|------|-----|
| Model | | | | | | | | |
| KS - Sanitary Pressure Transmitter | | KS | | | | | | |
| Accuracy/Tem. Effects | | | | | | | | |
| 7 - 1.00%/±0.040%/ °F | | | 7 | | | | | |
| Pressure Connection Size | | | | | | | | |
| S15 - 11/2" sanitary connection | | | | S15 | | | | |
| S20 - 2" sanitary connection | | | | | | | | |
| Output Signal | | | | | 40 | | | |
| 42 - 4-20 mA 15 - 1-5 Vdc | | | | | 42 | | | |
| 16 - 1-6 Vdc | | | | | | | | |
| 11 - 1-11 Vdc | | | | | | | | |
| Electrical Termination | | | | | | | | |
| F2 - 3' shielded cable Integral Cable (Pigtail) | | | | | | F2 | | |
| HM - W/o mating connection Hirschmann [®] G series connector (minatu | ure type) | | | | | | | |
| B4 - W/o mating connection 4-Pin Bendix® style | | | | | | | | |
| B6 - W/o mating connection 6-Pin Bendix® style | | | | | | | | |
| B8 - W/o mating connection environmentall sealed/moisture proof 4-F | Pin Bendix® style | | | | | | | |
| B9 - W/o mating connection environmentall sealed/moisture proof 6-F | Pin Bendix® style | | | | | | | |
| C1 - 3' shielded cable 1/2 NPT Male conduit shielded cable | | | | | | | | |
| Standard Pressure Ranges | | | | | | | | |
| 30# - 30 psi | | | | | | | | |
| 60# - 60 psi | | | | | | | | |
| 100# - 100 psi | | | | | | | 100# | |
| 150# - 150 psi | | | | | | | | |
| 200# - 200 psi | | | | | | | | |
| 300# - 300 psi | | | | | | | | |
| 500# - 500 psi | | | | | | | | |
| 750# - 750 psi | | | | | | | | |
| 1000# - 1,000 psi | | | | | | | | |
| 30#&VAC - vac/30 psi | | | | | | | | |
| 60#&VAC - vac/60 psi | | | | | | | | |
| 100#&VAC - vac/100 psi | | | | | | | | |
| Option (if including an option(s) must include an "X") | | | | | | | | X |
| CL - Non-standard calibration | | | | | | | | CL |

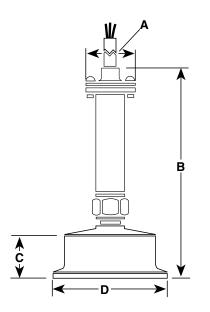
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KS Pressure Transmitter

DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings



| MODEL | А | В | С | D |
|-------|-----|-----|-----|-----|
| S15 | 0.8 | 4.7 | 0.9 | 2.0 |
| S20 | 0.8 | 4.7 | 0.9 | 2.5 |

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