

Exclusive KS Features

- Superior long-term stability and repeatability
- Stainless steel NEMA 4X enclosure
- Current/voltage/millivolt outputs available
- Wide range of electrical connections available
- All-welded construction
- 316L stainless steel electropolished diaphragm

Model KS Sanitary Transmitter

Featuring simple and stable polysilicon thin film technology. In addition to the Instrument Division's diaphragm seal technology the KS Transducer offers a unique rugged and reliable combination.



ISO 9001
REGISTERED FIRM



Measurement

BULLETIN PT-6

PERFORMANCE CHARACTERISTICS

Accuracy Class (F.S.): 1.0%

Nonlinearity

Terminal Point* ±0.7%

B.F.S.L. ±0.4%

Hysteresis ±0.2%

Nonrepeatability ±0.07%

*Including hysteresis

Standard Ranges (psi):

0/30*† 0/300† Vac/30†

0/60† 0/500 Vac/60†

0/100† 0/750 Vac/100†

0/150† 0/1000

0/200†

Consult factory for non-standard ranges.

*T/C multiply by 1.5 times

†NEMA 4X only with F2 and C1 electrical connections.

Stability: ±1% F.S./year

Durability: 10⁷ cycles 20/80% F.S. with negligible performance change

Response Time: Less than 5 msec.

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:

Storage -65/+250°F

Operating 0/+180°F

Compensated +30/+130°F

Thermal Coefficients (68°F ref.):

Zero ±0.04% F.S./°F

Span ±0.04% F.S./°F

Humidity: No performance effect at 95% relative humidity-noncondensing

FUNCTIONAL SPECIFICATIONS

Overpressure (F.S.):

Proof 200%

Burst 800%

Vibration Sweep:

Less than ±0.1% F.S. effect for 0-2000 Hz at 20 g's in any axis

Shock: Less than ±0.05% F.S. effect for 100 g's, 20 ms shock in any axis

Position Effect: Less than 0.1% F.S.

ELECTRICAL SPECIFICATIONS

Output Signal:

4-20mA (2 wire)

1-5 Vdc (3 wire)

1-6 Vdc (3 wire)

2mV/V ratiometric

3mV/V ratiometric

10mV/V ratiometric

20mV/V ratiometric

Supply Voltage:

10-36 Vdc

10-36 Vdc

10-36 Vdc

5-10 Vdc regulated

5-10 Vdc regulated

5-10 Vdc regulated

5-10 Vdc regulated

Reverse polarity protected

Supply Current: Less than 5mA for voltage output

Circuit to Case Insulation Resistance:

100 M ohms @ 50 Vdc

PHYSICAL SPECIFICATIONS

Standard Process Connections:

(316L stainless steel)

Tri-Clamp® style 1½", 2".

Enclosure: NEMA 4X, (NEMA 1 only if <500 psig and electrical termination is Bendix® or Hirschmann®).

Case: 300 series stainless steel

Cable: No. 24 AWG, 36" PVC, shielded, vented, UL approved.

Diaphragm: 316L stainless steel electro-polished

Fill: USP grade 99.5% glycerin fill, contact factory for other fill fluids.

Weight: 13.5 oz. (approx. without cable)

Consult factory for pricing, availability and required minimums for non-standard products.

WARNING! Sensitive diaphragm! Do not touch! Remove protective-cap just before installation!

Bendix® is registered trademark of Amphenol Corp.

Hirschmann® is registered trademark of Richard Hirschmann of America Inc.

Tri-Clamp® is a registered trademark of Tri-Clover, Inc.



Measurement

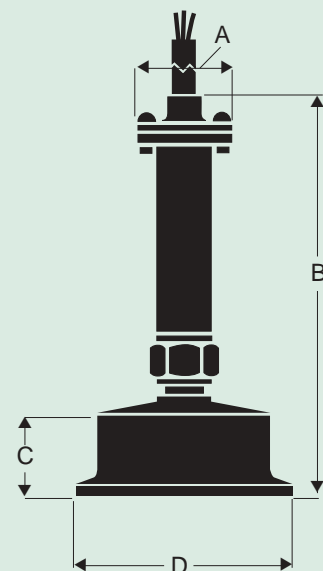
DRESSER INSTRUMENT, DRESSER, INC.

TWO RESEARCH DRIVE • SHELTON, CT 06484

(203) 925-4000 Customer Service • (203) 925-4010 Fax

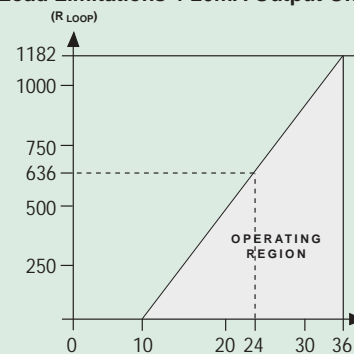
www.ashcroft.com

Dimensions



MODEL	A	B	C	D
S15	0.8	4.7	0.9	2.0
S20	0.8	4.7	0.9	2.5

Load Limitations 4-20mA Output Only



$$V_{\min} = 10V + (.022A \times R_L)$$

$$R_L = R_s + R_w$$

R_L = Loop Resistance (ohms)

R_s = Sense Resistance (ohms)

R_w = Wire Resistance (ohms)

How To Order

KS	7					#
Type Configuration (KS)	Accuracy (7) 1.0%, ±0.040%/°F					
		Sanitary Seal (S15) 1½" Sanitary Connection (S20) 2" Sanitary Connection	Output Signal (42) 4-20mA (16) 1-6 Vdc (15) 1-5 Vdc (02) 2mV/V (03) 3mV/V (10) 10mV/V (20) 20mV/V	Electrical Termination (F2) 36" Cable, Shielded, PVC Sheathing (B6) Bendix 6-pin #PTO2A-10-6P* (B9) WP Bendix 6-pin #PTO2H-10-6P* (B4) Bendix 4-pin #PTO2A-8-4P* (B8) WP Bendix 4-pin #PTO2H-8-4P* (C1) ½ NPT-M Conduit and 36" Cable (HM) Hirschmann Miniature		Pressure Range (30) 30 psi (60) 60 psi (100) 100 psi (150) 150 psi (200) 200 psi (300) 300 psi (500) 500 psi (750) 750 psi (1000) 1000 psi (Vac/30) Vac/30 (Vac/60) Vac/60 (Vac/100) Vac/100

*Mating connector available as option