

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.

INTERTECHNOLOGY
INC.

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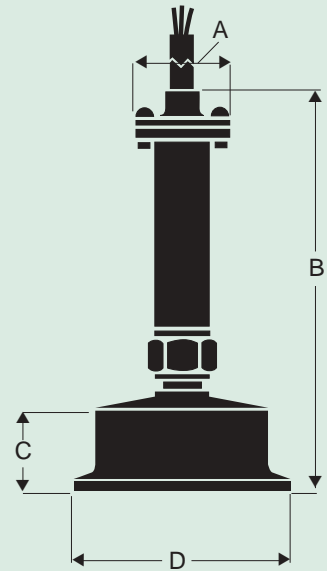
Tel: 416-445-5500, Fax: 416-445-1170

TOLL FREE: 1-800-465-1600

E-Mail: sales@intertechnology.ca

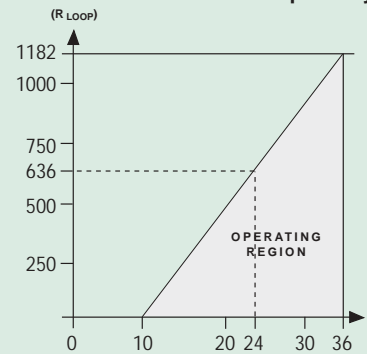
Website: www.intertechnology.com

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

<div style="border: 1px solid black; padding: 2px; display: inline-block;">K S</div> Type Configuration (KS)	<div style="border: 1px solid black; padding: 2px; display: inline-block;">7</div> Accuracy (7) 1.0%, ±0.040%/°F	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> </div> Sanitary Seal (S15) 1½" Sanitary Connection (S20) 2" Sanitary Connection	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> </div> 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	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> </div> 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	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> </div> 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
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*Mating connector available as option