

## KX Pressure Transmitter

### FEATURES

- Flush-mounted integral 316 stainless steel diaphragm
- All stainless steel wetted parts
- Weldnut and PMC adaptor options available

### TYPICAL USES

- Spray bottles
- Pulp and paper
- Wastewater
- Pumping processes



**KX**  
Pressure Transducer

### PERFORMANCE SPECIFICATIONS

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:	±0.5% span/year at reference conditions

### ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:	Storage: -65°F to 250°F (-54°C to 121°C) Operating: -20°F to 180°F (-28°C to 82°C) Compensated: -20°F to 160°F (-28°C to 71°C)
Thermal Coefficients: (ref. 68°F (20°C))	<b>Accuracy:</b> 1% ZERO ±0.04% SPAN ±0.04%
Humidity Effects:	No performance effect at 95% relative humidity-noncondensing

### FUNCTIONAL SPECIFICATIONS

Response Time:	<5ms
Pressure Ranges:	100 to 5,000 psi
Position Effect:	Less than ±0.01% F.S.
Overpressure:	Proof: Burst: ≤2,000 psi 2 X Range 8 X Range ≥3,000 to ≤5,000 psi 1.5 X Range 3 X Range

### ELECTRICAL SPECIFICATIONS

Output Signal:	4-20 mA (2 wire), 1-5 Vdc (3 wire), 1-6 Vdc (3 wire)
Supply Current:	<3 mA for voltage output
Power Requirements:	10-36 Vdc, unregulated

### KEY BENEFITS

- Flush all Stainless steel connections
- Designed for applications where clogging is an issue
- Accurate measurement under severe conditions
- NEMA 4X Enclosure

Output Impedance:	100 Ω
Circuit Protection:	Reverse polarity and miss-wire protected
Insulation Resistance (Circuit Case):	100 MΩ @ 50 Vdc
<b>PHYSICAL SPECIFICATIONS</b>	
Environmental Rating:	NEMA 4X
Weight:	10 oz (approx. without cable)
Process Connection:	½ NPT Male G-½ metric pipe thread O-Ring seal (Max. 150 psi) ½ NPT Male pipe thread used in conjunction with screw-on adapters

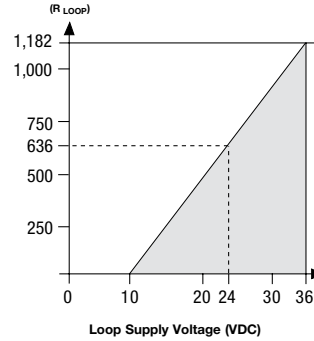
# KX Pressure Transmitter

WETTED MATERIAL	
Diaphragm	Process Connection
316 SS	316 SS

NON-WETTED
Housing
300 Stainless steel

## LOAD LIMITATIONS 4-20mA OUTPUT ONLY



$$V_{min} = 10V + (0.022A \times R_L)$$

$$R_L = R_S + R_W$$

$R_L$  = Loop Resistance (ohms)  
 $R_S$  = Sense Resistance (ohms)  
 $R_W$  = Wire Resistance (ohms)

ORDERING CODE	Example:	KX	7	MG4	42	F2	100#	XCL
<b>Model</b>		KX						
KX - Flush mount pressure transducer		KX						
<b>Accuracy/Tem. Effects</b>			7					
7 - 1.00%/±0.040%/°F			7					
<b>Pressure Connection Size</b>				MG4				
M04 - 1/2" NPT Male				MG4				
MG4 - G 1/2				MG4				
RS1 - O-Ring seal (Max 150 psi)								
<b>Output Signal</b>					42			
42 - 4-20 mA					42			
15 - 1-5 Vdc								
16 - 1-6 Vdc								
<b>Electrical Termination</b>						DN		
DN - EN 175301-803 Form A (DIN 43650, Form A) with no mate						DN		
RT - 1/2" NPT with RTD Head (4-20mA only)								
C1 - 3' shielded cable 1/2" NPT Male conduit shielded cable								
M1 - Mating connector, no cable (EN 175301-803 Form A) (DIN 43650, Form A)								
M2 - Mating connector, 3' of cable (EN 175301-803 Form A) (DIN 43650, Form A)								
<b>Standard Pressure Ranges</b>							100#	
100# - 100 psi							100#	
150# - 150 psi								
200# - 200 psi								
300# - 300 psi								
500# - 500 psi								
750# - 750 psi								
1000# - 1,000 psi								
2000# - 2,000 psi								
3000# - 3,000 psi								
5000# - 5,000 psi								
<b>Option (if including an option(s) must include an "X")</b>								X__
CL - Non-standard calibration								CL
WB - Flush weldnut								
WC - Recessed weldnut								
WD - Weldnut plug								
WE - Paper mill adapter								
WG - Halocarbon® fill								

## KX Pressure Transmitter

**DIMENSIONS** are identified in inches and [millimeters]

For reference only, consult Ashcroft for specific dimensional drawings.

