

V SERIES TRANSDUCER	K SERIES TRANSDUCER	KX/KS SERIES TRANSDUCERS	K8 SERIES TRANSDUCER
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### PERFORMANCE CHARACTERISTICS

Pressure Ranges (psi) 15 to 20,000 psis	Accuracy Class (F.S.) Non-lin. (Term. Pt.)* (B.F.S.L.) Hysteresis Non-Repeatability Interchangeability <i>*including Hysteresis</i>	Pressure Range (psi) Vac to 20,000 psi	Accuracy Class (F.S.) Non-lin. (Term. Pt.)* (B.F.S.L.) Hysteresis Non-Repeatability <i>*including Hysteresis</i>	Pressure Ranges (psi) 30 to 1000 psi	Accuracy Class 1% F.S. KX KS Non-lin. (Term. Pt.)* (B.F.S.L.) Hysteresis Non-Repeatability <i>*including Hysteresis</i>	Pressure Range (psi) Vac to 20,000 psi	Accuracy Class (F.S.) Non-lin. (Term. Pt.)* (B.F.S.L.) Hysteresis Non-Repeatability <i>*including Hysteresis</i>
	1.0% ±0.70 ±0.40 ±0.10 ±0.10 ±1.0		0.50% 1.0% ±0.40 ±0.70 ±0.25 ±0.40 ±0.15 ±0.20 ±0.05 ±0.07		±0.70 ±0.70 ±0.40 ±0.40 ±0.20 ±0.20 ±0.15 ±0.07		0.50% 1.0% ±0.40 ±0.70 ±0.25 ±0.40 ±0.15 ±0.20 ±0.05 ±0.07

### ENVIRONMENTAL CHARACTERISTICS

Temperature Limits: Storage: Operating: Compensated:	Temperature Limits: Storage: Operating: Compensated:	Temperature Limits: Storage: Operating: Compensated:	Temperature Limits: Storage: Operating: Compensated:
-65 to 275°F -40 to 250°F -40 to 250°F	-65 to 250°F -20 to 180°F -20 to 160°F	-65 to 250°F -20 to 180°F -20 to 160°F	-65 to 250°F -40 to 250°F -20 to 180°F

### FUNCTIONAL CHARACTERISTICS

V-2 Unit Range 0/15-0/1500 0/2000-0/5000 0/7500 0/10,000*	Proof 250% 250% 200% 150%	Burst 750% 400% 250% 200%	Overpressure: (F.S.) Unit Range Vac. to 2000 0/3000 to 0/5000 0/7500 to 0/20,000	Proof 200% 150% 120%	Burst 800% 300% 150%

### ELECTRICAL SPECIFICATION

Output Signal: 4-20mA <sup>†</sup> (2 Wire) 1-5 Vdc (3 Wire) 1-6 Vdc (3 Wire) 0.5-4.5 Vdc (3 Wire) 0.5-4.5 Vdc (3 Wire) 10mV/V (4 Wire) All units are reverse polarity protected †CE option available	Power Requirements: 8-30Vdc 8-30Vdc 8-30Vdc 8-30Vdc 5-10Vdc reg. 5-10Vdc reg.	Output Signal: 4-20mA (2 Wire) 1-5 Vdc (3 Wire) 1-6 Vdc (3 Wire) 0.1-10 Vdc (3 Wire) mV/V (4-wire) request PT-2 (K2)	Power Requirements: 10-36 Vdc unregulated 10-36 Vdc unregulated 10-36 Vdc unregulated 15-36 Vdc unregulated 15-36 Vdc unregulated	Output Signal: 4-20mA (2 Wire) 1-5 Vdc (3 Wire) 1-6 Vdc (3 Wire) 1-11 Vdc (3 Wire)	Power Requirements: 10-36 Vdc unregulated 10-36 Vdc unregulated 10-36 Vdc unregulated 15-36 Vdc unregulated

### PHYSICAL CHARACTERISTICS

Enclosure: NEMA 4X Materials: Socket: 17-4PH stainless steel Case: 6/6 glass filled Nylon Standard Process Connections: 1/8 NPT male or female 1/4 NPT male or female 7/16-20 SAE-J-514 (male) RFI Protected: IEC 801-3 Level 4 at 20 V/m standard.	Enclosure: NEMA 4X Materials: Case: 300 Series Stainless Steel Cable: No. 24 AWG, 36" PVC, shielded, vented, UL approved. Diaphragm: 17-4 PH stainless steel Standard Process Connections: 1/8 NPT male or female 1/4 NPT male or female 7/16-20 SAE-J-514 (male) 1/4" AMINCO (female) FM, UL APPROVALS (optional)	Enclosure: NEMA 4X Materials: Case: 300 Series Stainless Steel Cable: No. 24 AWG, 36" PVC, shielded, vented, UL approved. Diaphragm: KX: 316Ti stainless steel KS: 316L stainless steel electropolished Standard Process Connections: KX: G 1/2" metric pipe thd. PMC adptr. avail. O-Ring Seal 1/4 NPT male KS: Triclamp style 1 1/2" and 2" Fill Fluids: KX: Silicone KS: USP grade 99.5% glycerine fill Contact factory for other fluids.	Enclosure: NEMA 4X Materials: Case: 300 Series Stainless Steel Cable: 4" polyethylene coated, 30AWG or UL approved 36" PVC No. 24AWG, shielded and vented. Diaphragm: 17-4 PH stainless steel Standard Process Connections: 1/8 NPT male or female 1/4 NPT male or female 7/16-20 SAE-J-514 (male) 1/4" AMINCO (female)

### OPTIONS – CONSULT FACTORY

<ul style="list-style-type: none"> <li>■ CE approval</li> <li>■ Special pressure ranges and calibration</li> <li>■ Additional process connections</li> </ul>	<ul style="list-style-type: none"> <li>■ Special pressure ranges and calibration</li> <li>■ For millivolt (mV/V) versions request PT-2 (K2)</li> <li>■ FM and UL on certain ranges</li> <li>■ Additional process connections</li> </ul>	<ul style="list-style-type: none"> <li>■ Special pressure ranges and calibration for millivolt (mV/V) versions</li> </ul>	<ul style="list-style-type: none"> <li>■ Special pressure ranges and calibration</li> <li>■ Additional process connections</li> </ul>
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Request Bulletin V-2      Request Bulletin PT-1      Request Bulletin PT-5 (KX) & PT-6 (KS)      Request Bulletin PT-8

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# Low Pressure Transducers Quick Guide



REDUCED SIZE RXLdp SERIES	HIGH PERFORMANCE XLdp SERIES	INDUSTRIAL IXLdp SERIES	DIN MOUNT DXLdp SERIES
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PERFORMANCE CHARACTERISTICS			
<b>Pressure Ranges (Inches W.C.)</b> <b>Unidirectional:</b> 0/0.10 to 0/50 I.W.C. <b>Bidirectional:</b> ±0.05 to ±25 I.W.C.	<b>Pressure Ranges (Inches W.C.)</b> <b>Unidirectional:</b> 0/0.10 to 0/50 I.W.C. <b>Bidirectional:</b> ±0.05 to ±25 I.W.C.	<b>Pressure Ranges (Inches W.C.)</b> <b>Unidirectional:</b> 0/0.10 to 0/200 I.W.C. <b>Bidirectional:</b> ±0.05 to ±100 I.W.C.	<b>Pressure Ranges (Inches W.C.)</b> <b>Unidirectional:</b> 0/0.10 to 0/50 I.W.C. <b>Bidirectional:</b> ±0.05 to ±25 I.W.C.
<b>Accuracy Class: F.S.</b> 1% Non-lin (Term.Pt.*) ±0.80 (B.S.F.L.) ±0.60 Hysteresis ±0.05 Non-Repeatability ±0.10 <i>†including Hysteresis</i>	<b>Accuracy Class: F.S.</b> 0.25% 0.50% Non-lin (Term.Pt.*) ±0.20 ±0.40 (B.S.F.L.) ±0.15 ±0.30 Hysteresis ±0.02 ±0.02 Non-Repeatability ±0.03 ±0.05 <i>*including Hysteresis</i>	<b>Accuracy Class: F.S.</b> 0.25% 0.50% Non-lin (Term.Pt.*) ±0.20 ±0.40 (B.S.F.L.) ±0.15 ±0.30 Hysteresis ±0.02 ±0.02 Non-Repeatability ±0.03 ±0.05 <i>*including Hysteresis</i>	<b>Accuracy Class: F.S.</b> 0.25% 0.50% 1.0% Non-lin (Term.Pt.*) ±0.20 ±0.40 ±0.8 (B.S.F.L.) ±0.15 ±0.30 ±0.6 Hysteresis ±0.02 ±0.02 ±0.05 Non-Repeatability ±0.03 ±0.05 ±0.10 <i>†including Hysteresis</i>

ENVIRONMENTAL CHARACTERISTICS			
<b>Temperature Limits:</b> Storage: -40 to 180°F Operating: 0 to 160°F Compensated: +40 to 125°F	<b>Temperature Limits:</b> Storage: -40 to 180°F Operating: -20 to 160°F Compensated: +35 to 135°F	<b>Temperature Limits:</b> Storage: -40 to 210°F Operating: -20 to 185°F Compensated: 0 to 160°F	<b>Temperature Limits:</b> Storage: -40 to 180°F Operating: -20 to 160°F Compensated: -20 to 150°F

FUNCTIONAL CHARACTERISTICS			
<b>Overpressure:</b> Proof Pressure: 15 PSI Burst Pressure: 25 PSI Maximum static (line) pressure: 25 PSI	<b>Overpressure:</b> Proof Pressure: 15 PSI Burst Pressure: 25 PSI Maximum static (line) pressure: 25 PSI	<b>Overpressure:</b> Proof Pressure: 20 PSI Burst Pressure: 50 PSI Maximum static (line) pressure: 100 PSI	<b>Overpressure:</b> Proof Pressure: 15 PSI Burst Pressure: 25 PSI Maximum static (line) pressure: 25 PSI

ELECTRICAL SPECIFICATION			
<b>Output Signal:</b> 4-20mA† <b>Power:</b> 12-36 Vdc 1-5 Vdc 12-36 Vdc 1-6 Vdc 12-36 Vdc 0-5 Vdc 12-36 Vdc 0-10 Vdc 12-36 Vdc †CE option available EN61326:1997 ANNEX A (Heavy Industrial)	<b>Output Signal:</b> 4-20mA† <b>Power:</b> 12-36 Vdc 1-5 Vdc 12-36 Vdc 1-6 Vdc 12-36 Vdc †CE option available EN61326:1997 ANNEX A (Heavy Industrial)	<b>Output Signal:</b> 4-20mA† <b>Power:</b> 12-36 Vdc 0-5 Vdc 12-36 Vdc 1-5 Vdc 12-36 Vdc 1-6 Vdc 12-36 Vdc ±2.5 Vdc 12-36 Vdc ±5 Vdc 12-36 Vdc *FM option available	<b>Output Signal:</b> 4-20mA† (2 Wire) <b>Power:</b> 12-36 Vdc 1-5 Vdc† 12-36 Vdc 1-6 Vdc† 12-36 Vdc 0-5 Vdc† 12-36 Vdc 0-10 Vdc† 12-36 Vdc †CE standard EN61326:1997 ANNEX A (Heavy Industrial)

PHYSICAL CHARACTERISTICS			
<b>Enclosure:</b> NEMA 1 <b>Materials:</b> Case is Stainless Steel Cap is Lexan <b>Process Connections:</b> ¼" Barbed Stainless Steel ⅜" Barbed Stainless Steel ¼" NPTF Stainless Steel <b>Media:</b> Clean, dry and non-corrosive gas (consult factory for use on other media) NOT FOR USE ON LIQUIDS	<b>Enclosure:</b> NEMA 2 <b>Material:</b> 300 Series Stainless Steel <b>Process Connections:</b> ¼" Barbed Stainless Steel ⅜" Barbed Stainless Steel ¼" NPTF Stainless Steel <b>Media:</b> Clean, dry and non-corrosive gas (consult factory for use on other media) NOT FOR USE ON LIQUIDS	<b>Enclosure:</b> NEMA 4X <b>Material:</b> 300 Series Cast Stainless Steel <b>Process Connections:</b> ¼" NPTF St. St. <b>Media:</b> Clean, dry and non-corrosive gas (consult factory for use on other media) NOT FOR USE ON LIQUIDS	<b>Enclosure:</b> NEMA 1 <b>Materials:</b> Glass-filled Polycarbonate (UL94-V-1) <b>Pressure Connections:</b> ⅜" NPTF Brass <b>Media:</b> Clean, dry and non-corrosive gas (consult factory for use on other media) DIN Rail Mount: EN50022 EN50035 EN50045 NOT FOR USE ON LIQUIDS

OPTIONS			
<ul style="list-style-type: none"> <li>■ CE approval</li> <li>■ Board level</li> <li>■ Special pressure ranges, calibrations and response time available</li> </ul>	<ul style="list-style-type: none"> <li>■ CE approval</li> <li>■ Special pressure ranges, calibrations and response time available</li> </ul>	<ul style="list-style-type: none"> <li>■ FM approval</li> <li>■ 5:1 turndown</li> <li>■ Variable dampening</li> <li>■ Tagging</li> <li>■ Special pressure ranges, calibrations and response time available</li> </ul>	<ul style="list-style-type: none"> <li>■ SpoolCal™ process valve actuator</li> <li>■ LED range status indicators includes front access test jacks</li> <li>■ 2:1 turndown</li> <li>■ Special pressure ranges, calibrations and response time available</li> </ul>

Request Bulletin CT-4      Request Bulletin CT-1      Request Bulletin CT-3      Request Bulletin CT-5

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