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	 High Accuracy Test & Measurement Pressure	 High Accuracy Differential Pressure Transducer	 High Output Linear Accelerometer	 Very Low Differential Gauge Pressure	 High Accuracy Pressure Transducer	 General Purpose Test & Measurement	 High Accuracy Low Differential Pressure	 Industrial/OEM	 Industrial/OEM	 Circuit Board Mountable	 Rugged Industrialized Housing	 High Performance, Rugged Pressure Transducer	 Flush Diaphragm 3A Sanitary Pressure Transmitter	 High Pressure Sensing	 Model 223 & 224 (Flow-Through) Model 217 & 227 (Down Mount) Model 227INT w/ Integral Display Model 225 (Low Cavity Volume)	 Unheated Vacuum Capacitance Diaphragm Gauge (CDG)	 Unheated Vacuum Capacitance Diaphragm Gauge (CDG)	 Analog Setraceram™ for Barometric/Medium Pressure	 Medium Accuracy for Barometric Pressure	 High Accuracy Barometric Pressure	 Extremely High Accuracy Barometric Pressure																			
	AccuSense™ Model ASM	AccuSense™ Model ASL	Model 141 Accel	Model 201	Model 204/C204/204D	Model 205-2	Model 239	Model 206	Model 209	Model 210	Model 256	Model 280/C280E	Model C290	Model 3100/3200	Model 217, 223, 224, 225, 227	Model 730	Model 760	Model 270	Model 276	Model 278	Model 370, 470, 470T																			
Applications	<ul style="list-style-type: none">• Engine Test Stands• Particle Test & Analysis• Industrial High Accuracy• Dynamometers• R & D• Refrigeration Testing	<ul style="list-style-type: none">• Test Stands• Wind Tunnels• Leak Detection Systems• Pharmaceutical• Medical Instrumentation• Energy Management• Clean Rooms	<ul style="list-style-type: none">• Transportation Equipment• Position Sensing• Robotics• Shock & Vibration Testing• Low Frequency Measurements	<ul style="list-style-type: none">• Vapor Recovery Systems• Exhaust Gas Control Systems• Industrial Scrubbers	<ul style="list-style-type: none">• High accuracy general purpose• R&D Test & Measurement• Vacuum Systems• Dynamometers• Engine Test Cells	<ul style="list-style-type: none">• R & D• Test & Measurement• Vacuum Systems• Dynamometers• Engine Test Cells	<ul style="list-style-type: none">• HVAC Control• Leak Detection• Environmental Testing• R & D Scientific• Fume Hood Control• Medical Instrumentation• Clean Room Control	<ul style="list-style-type: none">• Equipment Automation• Compressor Control• Chillers• Hydraulics & Pneumatics• HVAC/R Equipment	<ul style="list-style-type: none">• Hydraulic Systems• Compressor Control• HVAC/R Equipment• Industrial Engines• Refrigeration• OEM	<ul style="list-style-type: none">• Analytical Measurement & Control• OEM Medical Systems	<ul style="list-style-type: none">• Equipment Automation• Compressor Control• Chillers• Hydraulics & Pneumatics• Process Control• Agricultural Irrigation Process	<ul style="list-style-type: none">• High Pressure• General Purpose• Process Control• P/I Process Signals• Hydraulics & Pneumatics	<ul style="list-style-type: none">• Sanitary Pressure Lines• Food & Beverage Processing• Tank Level Measurement• Pharmaceutical Processing• Sanitary Filtration Systems	<ul style="list-style-type: none">• Medical• Refrigeration• Hydraulic Pressure• Industrial Compressors/Pumps• Variable Speed Pumps• OEM	<ul style="list-style-type: none">• Specialty Gas Handling Systems• Semiconductor Process Equipment• Gas Cabinets• Gas Bottle Filling Equipment• Pharmaceutical & Biotechnology Process• HPLC (High Pressure Liquid Chromatography)	<ul style="list-style-type: none">• Semiconductor Process• Sterilizers & Autoclaves• Tools & Equipment• Lasers• Vacuum Packaging• Freeze Drying• Vacuum Distillation	<ul style="list-style-type: none">• Semiconductor Process• Tools & Equipment• Laboratory and R&D• Test & Measurement• Metrology• Analytical Chemistry Systems• Vacuum Furnaces	<ul style="list-style-type: none">• Weather Data Systems• Laser Interferometers• Altimeter Setting Indicators• Transfer Pressure Standard• Engine Test Cells	<ul style="list-style-type: none">• Weather & Environmental Data Logging• Clean Rooms• Automotive Emissions• Agriculture	<ul style="list-style-type: none">• Automated Weather Station• Data Buoys and Ships• Agricultural Metrology System• AWOS/ASOS Systems• Laser Interferometer• High Accuracy Barometric• Data Logger	<ul style="list-style-type: none">• Test & Measurement• Weather Observation Systems• Automated Weather Reporting• Pressure Transfer Standard• Altimeter Calibration Recertification• Lab or Production Process Monitoring• Altitude Chambers																			
Type of Measurement	Gauge Compound Gauge Absolute Vacuum Gauge	Differential	G Ranges (Full Scale Ranges ±G)	Differential	Gauge Compound	Gauge Absolute	Low Differential Pressure	Gauge	Gauge Sealed Gauge Compound Vacuum	Gauge	Gauge	Gauge Absolute	Gauge Compound	Gauge	Gauge Compound Absolute	Absolute	Absolute	Barometric Gauge Absolute	Barometric Absolute	Barometric Absolute	Barometric Absolute																			
Ranges	0 to -14.7 psiv 0 to 15-1,000 psi 0 to -1-70 bar	2 to 40 in W.C., 100 mbar, 1 psi ±1 to ±20 in W.C., ±1 psid	Nominal Range: ±2 ±600g Flat Response: DC to 200Hz/DC to 3000 Hz (Depending on Range)	0 to 2 / 20 psi 1 to ±1 / 2 psi 0 to 5/10/50"WC 0 to ±2.5/5/25"WC 0 to 10/20/100 mbar 0 to 1/2/10 kPa 0 to ±0.5/1/5 kPa	0 to 25 - 10,000 psig -14.7 to 0 psig 0 to ±10 - 10,000 psid	0 to 15- 10,000 psig -14.7 to 35-100 psig 0 to 25-5,000 psia	0 to 0.5-30"WC 0 to 5-10 psid Bidirectional: 0 to ±0.25 - 15"WC 0 to ± 2.5 - 5 psid	0 to 25-10,000 psig 0 to 1.6-700 bar (Compound Ranges Available)	0 to 1-10,000 psi 0 to -14.7 vacuum (Bar Ranges Available)	0 to 100 psi	0 to 1-10,000 psig 0 to 1.6-700 bar	0 to 15-10,000 psig -14.7 to 35-100 psig 0 to 25-5,000 psia	w/1.5" Fitting: 0 to 30-1000 psig -14.7 to 15-45 psig w/2" Fitting 0 to 1-150 psig -14.7 to 15 psig 0 to 100-1,000 mbar	0 to 50-30,000 psi 0 to 3.5-2,200 bar	Models 217/ 223/224/225/227/227INT -14.7 or 0 to 25-3,000 psig 0 to 25-3,000 psia Model 223/224/225 -14.7 to 2,985.3 (Standard Bar Ranges available on all models)	0 to 10-1,000 Torr 0 to 10-1,000 mbar 0 to 0.02-20 psia 0 to 2-100, kPa	0 to 1-1,000 Torr 0 to 1-1,000 mbar 0 to 0.02-20 psia 0 to 10-100 kPa	600 to 1100 mbar/hPa 800 to 1100 mbar/hPa 0 to 5-100 psia 0 to 10-100 psia	600 to 1100 mbar/hPa 800 to 1100 mbar/hPa 0 to 20 psia	500 to 1100 mbar/hPa 600 to 1100 mbar/hPa 800 to 1100 mbar/hPa	600, or 800 to 1100 hPa/mb 0 to 10-100 psia																			
Accuracy Full Scale (RSS) or % of Reading	Accuracy Class Code A: ±0.05% FS (End Point) ± 0.04% FS (BFSL) Code B: ±0.1% FS Reading Code C&D: ±0.1% FS (End Point) ±0.07% FS (BFSL)	<±0.07% FS	±1.0% FS	±0.5% FS	±0.11% FS ±0.14% for 10,000 psig ±0.22% FS (±100, ±250, ±500 psid) ±0.14% FS (10,000 psid) ±0.073% FS (Option on unidirectional range only)	±0.11% FS	±0.14% FS	±0.13% FS	±0.25% FS	±1.0% FS Optional: ±0.5% FS ±0.25% FS	±0.13% FS	±0.11% FS	±0.20% FS ±0.1% FS (Optional)	±0.25% FS	217/223/224/225/227/227INT ±0.25% FS 217/223/224/227/227INT Also offered in ±1.0% of Reading	±0.5% of Reading ±0.25% of Reading (Optional)	±0.25% of Reading ±0.15% of Reading (Optional)	±0.05% FS ±0.03% FS (Optional)	±0.25% FS ±0.1% FS (Optional)	Range mbar/hPa: <table><tr><td>500</td><td>600</td><td>800</td></tr><tr><td>Accuracy (hPa/mb)</td><td>±0.6</td><td>±0.5</td><td>±0.3</td></tr><tr><td>Temp. @ 20°C</td><td>±1.2</td><td>±1.0</td><td>±0.6</td></tr><tr><td>-20 to 50°C</td><td>±2.0</td><td>±1.5</td><td>±1.0</td></tr><tr><td>-40 to 60°C</td><td>±2.5</td><td>±2.0</td><td>±1.5</td></tr></table> Note: Accuracy specified over full temp range	500	600	800	Accuracy (hPa/mb)	±0.6	±0.5	±0.3	Temp. @ 20°C	±1.2	±1.0	±0.6	-20 to 50°C	±2.0	±1.5	±1.0	-40 to 60°C	±2.5	±2.0	±1.5	±0.02% FS Non-Linearity ±0.012% FS Terminal Method
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Thermal Effect % FS/100°F (% FS/50°C)	<table><tr><td>A & B</td><td>C</td><td>D</td></tr><tr><td>0.17 (0.16)</td><td>0.35 (0.31)</td><td>1.04 (0.94)</td></tr></table> Zero and Span Combined	A & B	C	D	0.17 (0.16)	0.35 (0.31)	1.04 (0.94)	<table><tr><td>A & B</td><td>C</td></tr><tr><td>0.31 (0.35)</td><td>0.63 (0.69)</td></tr></table> Zero and Span Combined	A & B	C	0.31 (0.35)	0.63 (0.69)	2.0 (1.8) Zero 2.0 (1.8) Span	2.0 (1.8) Zero 1.5 (1.4) Span	1.0 (0.9) Zero 1.0 (0.9) Span	2.0 (1.8) Zero 1.5 (1.4) Span	1.0 (0.9) Zero 1.0 (0.9) Span	2.0 (1.8) Zero 1.5 (1.4) Span	<±2.0 (<±1.8) Zero <±1.5 (<±1.4) Span	1.0 (0.9) Zero 1.5 (1.4) Span	2.0 (1.8) Zero 2.0 (1.8) Span	2.0 (1.8) Zero 2.0 (1.8) Span	1.0 (0.75) Zero and Span Combined Note: Thermal accuracy specified over the full temperature range of -40°F to 250°F (-40°C to ±125°C)	2.0 (1.8) Zero 2.0 (1.8) Span	±0.25% FS/50°C Zero ±1.35% of Reading/50°C Span	(0.3) Zero (1.0% of Reading) Span	0.1 (0.1) Zero 0.1 (0.1) Span Barometric 0.2 (0.2) Zero 0.1 (0.1) Span	1.0 (0.9) Zero 1.0 (0.9) Span	See Above	0.2 (0.2) Zero 0.1 (0.1) Span										
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Media Compatibility	Gas or liquid compatible with 17-4 PH Stainless Steel	Gas or liquid compatible with 300 Series or 17-4 PH Stainless Steel	N/A	Gas or Liquid compatible with Stainless Steel and 600 Series Inconel®	204D: High Pressure Port Gas or liquid compatible with 17-4 PH Stainless Steel Low Pressure Port Clean dry air or non corrosive gases (1000 psig maximum)	Gas or liquid compatible with 17-4 PH Stainless Steel	High Pressure Port Gas compatible w/ 17-4PH Stainless Steel, Aluminum & Buna-N "O" Ring Low Pressure Port Clean dry air or inert gas (non-condensing, non- corrosive)	Gas or liquid compatible with 17-4 PH Stainless Steel	Gas or liquid compatible with 17-4 PH Stainless Steel	Gases compatible with 304 SS, 17-7 PH Series Stainless Steel, Nylon, Polyester, & Silicone	Gas or liquid compatible with 17-4 PH Stainless Steel	Gas or liquid compatible with 17-4 PH Stainless Steel	Gas or liquid compatible with 316 or 316L Stainless Steel	Gas or liquid compatible with 17-4 PH Stainless Steel	Corrosive liquids or gases compatible with 316L Stainless Steel (Ultra-High Purity Gas & Liquid Compatible)	Gas or liquid compatible with Inconel®	Gas or liquid compatible with Inconel®	Non-condensing air or gas	Non-condensing air or gas	Non-condensing air or gas	Non-condensing air or gas																			
Vibration	10g from 50 Hz to 2,000 Hz	10g from 50 Hz to 2,000 Hz	5g	Not Rated	2g from 5 Hz to 500 Hz	2g from 5 Hz to 500 Hz	2g from 5 Hz to 500 Hz	20g from 50 Hz to 2000 Hz	20g	5g	20g	2g from 5 Hz to 500 Hz	10g, 50-1000 Hz	40g	Not Rated	Not Rated	Not Rated	2g from 5 Hz to 500 Hz	2g from 5 Hz to 500 Hz	Not Rated	Not Rated																			
Shock	200g	200g	100g	50g	50g	50g	50g	200g	200g	100g	200g	50g	50g	Withstands free fall to IEC 68-2-32 Procedure 1	Not Rated	Not Rated	Not Rated	50g	50g	Not Rated	Not Rated																			
Output	0 to 5 VDC 0 to 10 VDC 4 to 20 mA	0 to 5 VDC 0 to 10 VDC 4 to 20 mA	<table><tr><td>141A</td><td>141B</td></tr><tr><td>5 to 15 VDC</td><td>10 to 20 VDC</td></tr><tr><td>10 VDC</td><td>24 VDC</td></tr><tr><td>0 to 5 mA</td><td>0 to 10 mA</td></tr></table> 4 to 20 mA	141A	141B	5 to 15 VDC	10 to 20 VDC	10 VDC	24 VDC	0 to 5 mA	0 to 10 mA	0 to 5 VDC	0 to 5 VDC	0 to 5 VDC	0 to 5 VDC 0 to ±2.5 VDC	4 to 20 mA 0.1 to 5.1, 10.1 VDC 1 to 5, 6 VDC	4 to 20 mA	1 to 6 VDC 0.5 to 4.5 VDC 0.5 to 5.5 VDC	4 to 20 mA	4 to 20 mA	4 to 20 mA	4 to 20 mA 1 to 6 VDC 0.5 to 4.5 VDC 0.5 to 5.5 VDC 0.5 to 4.5 V Ratiometric	4 to 20 mA 0 to 5 VDC 0 to 10 VDC 0.2 to 5.2 VDC 0.2 to 10.2 VDC	0 to 5 VDC 0 to 10 VDC	0 to 5 VDC 0 to 10 VDC	0 to 5 VDC	0.1 to 5.1 VDC 0.5 to 4.5 VDC	0 to 2.5 VDC 0 to 5 VDC	Not Rated											
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10 VDC	24 VDC																																							
0 to 5 mA	0 to 10 mA																																							
Burst Pressure Range Dependent	3000 to 10,000 PSI	200 to 300 PSI (15 to 20 Bar)	NA	100 PSI	35 to 10,000 PSIG 0 to 14.7 PSI	150 to 7,500 PSI	Not Rated	32 to 1,350 Bar 500 to 20,000 PSIG	250 to 20,000 PSI 5,000 to 12,000 PSI (high option)	250 to 500 PSIG	250 to 12,500 PSI 40 to 1,350 Bar	75 to 12,500 PSI	100 to 400 PSIG (2" Tri-Clover) 1,200 to 2,400 PSIG (1.5" Tri-Clover)	1.8 to 40 x Full Scale (3100) 10 to 40 x Full Scale (3200)	1,500 to 10,000 PSI (217, 223, 224, 225, 227)	>500 PSI for leak to environment	>500 PSI for leak to environment	Not Rated	Not Rated	2,000 hPa	Not Rated																			
Proof Pressure Range Dependent	30 (2x) to 1,500 (1.5x) PSI	10 to 150 PSI (700mBar to 10 Bar)	NA	10 to 45 PSI	50 to 6,000 PSI	50 to 6,000 PSI	5 to 100 PSI (positive) 2.5 to 150 in. WC, 25, 50 PSI	6 to 800 Bar 100 to 12,500 PSIG	2 to 12,500 PSI, 10 PSIV 800 to 5,000 PSI (high option)	2 to 200 PSIG	2 to 12,000 PSI 6 to 800 Bar	25 to 11,000 PSI	50 to 225 PSIG (2" Tri-Clover) 1,000 to 1,250 (1.5" Tri-Clover)	1.4 to 3.0 x Full Scale (3100) 2.5 to 3.0 x Full Scale (3200)	40 to 3,500 PSI (217, 223, 224, 227) 50 to 3,500 PSI (225)	45 PSIA	45 PSIA	Barometric = 20 PSIA Absolute = 1.5x	Barometric = 20 PSIA Absolute = 30 PSIA	1,500 hPa	150% of full scale pressure range																			
Response Time	<10 ms for Voltage Output <80 ms for Current Output	<10 ms for Voltage Output <100 ms for Current Output	Not Rated	20 ms	Not Rated	1 ms	< 10 ms	5 ms	5 ms	10 ms	Not Rated	Not Rated	10 ms	1 ms	? (217, 223, 224, 225, 227)	<20 ms	<20 ms	<10 ms	Not Rated	<100 ms	Not Rated																			