

Model Number 176M03	CHARGE OUTPUT PRESSURE SENSOR		Revision: E ECN #: 34653
Performance Sensitivity(± 20 %) ENGLISH SI Measurement Range 17 pC/psi 2.47 pC/kPa Maximum Pressure(static) 20 psi 137.9 kPa Resonant Frequency 400 psi 2758 kPa Non-Linearity >50 kHz >50 kHz ≤ 1 % FS ≤ 1 % FS [9]		OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Environmental Acceleration Sensitivity ≤ 0.01 psi/g ≤ 0.007 kPa/(m/s ²) Temperature Range(Continuous) 986 °F 530 °C (Intermittent) 1040 °F 560 °C (Receptacle) 500 °F 260 °C Temperature Coefficient of Sensitivity ≤ 0.01 %/°F ≤ 0.02 %/°C Hazardous Area Approval ATEX ATEX [1][2][3][4] CSA (C-US) NRTL - Canadian CSA (C-US) NRTL - Canadian [5][6][7][8] Standards Association Standards Association		NOTES: [1] Ex nL IIC T4, II 3 G [2] Ex nL IIC T1, II 3 G [3] Ex ia IIC T4, II IG [4] Ex ia IIC T1, II IG [5] AEx nA IIC T1, DIV2 CL1 GR A-D [6] AEx nA IIC T4, DIV2 CL1 GR A-D [7] Ex nL IIC T1, DIV2 CL1 GR A-D [8] Ex nL IIC T4, DIV2 CL1 GR A-D [9] Zero-based, least-squares, straight line method. [10] See PCB Declaration of Conformance PS058 for details.	
Electrical Capacitance <165 pF <165 pF Internal Resistance(room temp) ≥ 10 ¹² ohm ≥ 10 ¹² ohm Insulation Resistance(room temp) ≥ 10 ¹² ohm ≥ 10 ¹² ohm Internal Resistance(986°F/527°C) ≥ 50 kohm ≥ 50 kohm Insulation Resistance(986°F/527°C) ≥ 100 kohm ≥ 100 kohm			
Physical Sensing Geometry Compression Compression Housing Material Inconel Inconel Sealing Welded Hermetic Welded Hermetic Electrical Connector 2-Pin 2-Pin Cable Type 2-conductor 2-conductor Weight(with clamp nut) 4.9 oz 140 gm			
[10] All specifications are at room temperature unless otherwise specified. This product is a controlled item under the International Traffic in Arms Regulations (ITAR) administered by the Office of Defense Trade Controls. Any export of this product from the United States, including any item in which this product may be incorporated, requires appropriate authorization from the U.S. State Department. Diversion contrary to U.S. law is prohibited. In the interest of constant product improvement, we reserve the right to change specifications without notice. ICP® is a registered trademark of PCB Group, Inc.		SUPPLIED ACCESSORIES: Model 30498-01 Clamp nut (1) Model 30736-01 Seal-G-.75-.50-.030 (3)	
Entered: <i>JH</i> Engineer: <i>JH</i> Sales: <i>SL</i> Approved: <i>EB</i> Spec Number:			
Date: <i>12/20/10</i> Date: <i>12/7/10</i> Date: <i>12/7/10</i> Date: <i>12/7/10</i> 35041			
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