

CHICAGO STAINLESS EQUIPMENT

SANITARY PROFIBUS PA PRESSURE TRANSMITTER

PMP SERIES

Electronic Profibus Pressure Transmitter

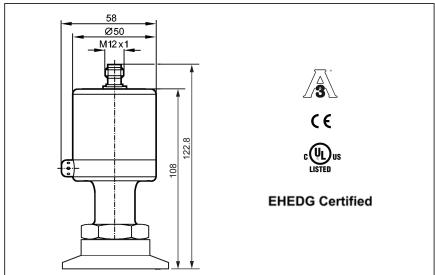
Sanitary Process Connection

Online Monitoring/Diagnosis of Electronics and Measuring Cell Profibus PA Profile 3.01 I&M Functionality

Suitable for All Standard CIP and SI Processes

Quickly Connects with Water Tight Standard M12 Industrial Connector (Cables and Connectors Sold Sepera

Available in the following Ranges: -14.5 to 145 PSI - PMP94 -1.8 to 36.24 PSI - PMP96 -0.73 to 14.5 PSI - PMP97



Applications

Electrical Design **Operating Voltage** [V] **Reverse Polarity Protection Overload Protection** Integrated Watchdog Current Loop Consumption (mAmp) Pressure Rating (min) Bursting Pressure (min) **Programming Options** Accuracy / Deviations (in % of span) Turn Down 1:1 Characteristics Deviation *) Linearity Hysteresis Repeatability **) Long-Term Stability ***) Temperature Coefficients (TEMPCO) in the Temperature Range of 0...80°C (in % of the Span Per 10 K) Greatest TEMPCO of the Zero Point Greatest TEMPCO of the Span

Type of Pressure: Relative Pressure
Hygienic Systems, Viscous Media and Liquids with Suspended Partivcles Liquids and Gases
Profibus PA, Electrically Isolated
932 Volts DC ¹)
Yes
Yes
Yes
< 15.6 ****)
5 x Pressure Rating
15 x Pressure Rating
Parameter Setting According to Profibus PA Profile Pressuer Transmitter, Ver. 3.01; I&M Parameter; Zero Point Offset, Damping
< ± 0.2
(± 0.2 (± 0.2 (± 0.15))
< ± 0.15
<= 0.1
< ± 0.1
< ± 0.05
< ± 0.15



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SANITARY PROFIBUS PRESSURE TRANSMITTER

Measuring / Display Cycle (ms)Ambient Temperature (°C)Ambient Temperature (°C)Storage Temperature (°C)ProtectionInsulation Resistance (MΩ)Shock ResistanceVibration ResistanceVibration ResistanceMinimum Pressure CyclesEMCENCENCHousing MaterialsHousing Materials	g/ Display Cycle (ms) <70 Temperature (°C) -2585 Temperature (°C) -40.100 Imperature (°C) Imperature (°C) Imperature (°C) Imperatu	
Ambient Temperature (°C)-2585Medium Temperature (°C)-25125 (145 max 1 Hr)Storage Temperature (°C)-40100ProtectionIP68 / IP 69K, IIIInsulation Resistance (MΩ)> 100 (500 V DC)Shock ResistanceDIN IEC 68-2-27: 50 g (11ms)Vibration ResistanceDIN IEC 68-2-6: 20 g (10 2000Hz)Minimum Pressure Cycles100 MillionEMCEN61000-4-2 ESD: 4kV CD / 8 kV ADEN61000-4-3 HF Radiated: 10V/mEN61000-4-4 Burst: 2kVEN61000-4-4 Burst: 2kVEN61000-4-5 Surge: 0.5/1 kVEN61000-4-6 HF Conducted: 10 VHousing MaterialsMaterials Wetted SurfacesConnectionRemarksn.c. = Not Connected') To EN50178, SELV, PELV*) Uith Temperature Fluctuations < 10 K	Temperature (°C) -2585 Temperature (°C) -25125 (145 max 1 Hr) Temperature (°C) -40100 Dn IP68 / IP 69K, III n Resistance (MΩ) > 100 (500 V DC) sistance DIN IEC 68-2-27: 50 g (11ms) n Resistance DIN IEC 68-2-6: 20 g (10 2000Hz) n Pressure Cycles 100 Million EN61000-4-3 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 HF Conducted: 10 V Materials Stainless Steel 316L/1.4403; PTFE; ULTEM; Viton Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/Rz 4	35
Medium Temperature (°C)25125 (145 max 1 Hr)Storage Temperature (°C)-40100ProtectionIP68 / IP 69K, IIIInsulation Resistance (MΩ)> 100 (500 V DC)Shock ResistanceDIN IEC 68-2-27: 50 g (11ms)Vibration ResistanceDIN IEC 68-2-6: 20 g (10 2000Hz)Minimum Pressure Cycles100 MillionEMCEN61000-4-2 ESD: 4kV CD / 8 kV ADEN61000-4-3 HF Radiated: 10V/mEN61000-4-4 Burst: 2kVEN61000-4-5 Surge: 0.5/1 kVHousing MaterialsMaterials Wetted SurfacesConnectionRemarksn.c. = Not Connected') To EN50178, SELV, PELV*) Uinerity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086)***) With Temperature Fluctuations < 10 K ***) In % of Span per Year	Temperature (°C) -25125 (145 max 1 Hr) Temperature (°C) -40100 on IP68 / IP 69K, III n Resistance (MΩ) > 100 (500 V DC) esistance DIN IEC 68-2-27: 50 g (11ms) on Resistance DIN IEC 68-2-6: 20 g (10 2000Hz) n Pressure Cycles 100 Million EN61000-4-2 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN61000-4-4 Burst: 2kV EN61000-4-4 HF Conducted: 10 V Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton SWetted Surfaces N12 Connector; Gold-Plated Contacts ion n.c. = Not Connected ') To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) *** With Temperature Fluctuations < 10 K	<70
Storage Temperature (°C)-40100ProtectionIP68 / IP 69K, IIIInsulation Resistance (MΩ)> 100 (500 V DC)Shock ResistanceDIN IEC 68-2-27: 50 g (11ms)Vibration ResistanceDIN IEC 68-2-6: 20 g (10 2000Hz)Minimum Pressure Cycles100 MillionEMCEN61000-4-2 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV 	Temperature (°C)	-2585
ProtectionIP68 / IP 69K, IIIInsulation Resistance (MΩ)> 100 (500 V DC)Shock ResistanceDIN IEC 68-2-27: 50 g (11ms)Vibration ResistanceDIN IEC 68-2-6: 20 g (10 2000Hz)Minimum Pressure Cycles100 MillionEMCEN61000-4-2 ESD: 4kV CD / 8 kV ADEMCEN61000-4-3 HF Radiated: 10V/mEN61000-4-4 Burst: 2kVEN61000-4-4 Burst: 2kVEN61000-4-5 Surge: 0.5/1 kVEN61000-4-5 Surge: 0.5/1 kVHousing MaterialsStainless Steel 316L/1.4404; PTFE; ULTEM; VitonMaterials Wetted SurfacesStainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/R: M12 Connector; Gold-Plated ContactsRemarksn.c. = Not Connected') To EN50178, SELV, PELV*) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086)***) With Temperature Fluctuations < 10 K ****) In % of Span per Year	pnIP68 / IP 69K, IIIn Resistance (MΩ)> 100 (500 V DC)esistanceDIN IEC 68-2-27: 50 g (11ms)n ResistanceDIN IEC 68-2-6: 20 g (10 2000Hz)n Pressure Cycles100 MillionEN61000-4-2 ESD: 4kV CD / 8 kV ADEN61000-4-3 HF Radiated: 10V/mEN61000-4-3 HF Radiated: 10V/mEN61000-4-4 Burst: 2kVEN 61000-4-4 Burst: 2kVEN 61000-4-6 HF Conducted: 10 VMaterialsStainless Steel 316L/1.4404; PTFE; ULTEM; VitonStainless Steel 316L/1.4404; PTFE; ULTEM; VitonStainless Steel 316L/1.4405; Ceramics (99.9% AI2 O3); PTFE; Ra < 0.4/Rz 4	-25125 (145 max 1 Hr)
Insulation Resistance (MΩ) > 100 (500 V DC) Shock Resistance DIN IEC 68-2-27: 50 g (11ms) Vibration Resistance DIN IEC 68-2-6: 20 g (10 2000Hz) Minimum Pressure Cycles 100 Million EMC EN61000-4-2 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.5/1 kV Housing Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Materials Wetted Surfaces Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Connection m.c. = Not Connected ') To ENS0178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) *****) In % of Span per Year ****** In % of Span per Year	n Resistance (MΩ) > 100 (500 V DC) esistance DIN IEC 68-2-27: 50 g (11ms) n Resistance DIN IEC 68-2-6: 20 g (10 2000Hz) n Pressure Cycles 100 Million EN61000-4-2 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN61000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.5/1 kV Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton S Wetted Surfaces Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/Rz 4	-40100
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Vibration ResistanceDIN IEC 68-2-6: 20 g (10 2000Hz)Minimum Pressure Cycles100 MillionEMCEN61000-4-2 ESD: 4kV CD / 8 kV ADEN61000-4-3 HF Radiated: 10V/mEN61000-4-3 HF Radiated: 10V/mEN61000-4-4 Burst: 2kVEN 61000-4-5 Surge: 0.5/1 kVHousing MaterialsStainless Steel 316L/1.4404; PTFE; ULTEM; VitonMaterials Wetted SurfacesStainless Steel 316L/1.4404; PTFE; ULTEM; VitonConnectionn.c. = Not Connected') To EN50178, SELV, PELV') To EN50178, SELV, PELV*) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086)***) With Temperature Fluctuations < 10 K	n Resistance DIN IEC 68-2-6: 20 g (10 2000Hz) n Pressure Cycles 100 Million EN61000-4-2 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN61000-4-4 Burst: 2kV EN 61000-4-6 HF Conducted: 10 V Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton S Wetted Surfaces Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/Rz 4	> 100 (500 V DC)
Minimum Pressure Cycles 100 Million EMC EN61000-4-2 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN61000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.5/1 kV Housing Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Materials Wetted Surfaces Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Connection M12 Connector; Gold-Plated Contacts Remarks n.c. = Not Connected ') To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) ***) With Temperature Fluctuations < 10 K	n Pressure Cycles 100 Million EN61000-4-2 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.5/1 kV EN61000-4-6 HF Conducted: 10 V Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Stainless Steel 316L/1.4403; Ceramics (99.9% AI2 O3); PTFE; Ra < 0.4/Rz 4	DIN IEC 68-2-27: 50 g (11ms)
EMC EMC ENG1000-4-2 ESD: 4kV CD / 8 kV AD ENG1000-4-3 HF Radiated: 10V/m ENG1000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.5/1 kV ENG1000-4-6 HF Conducted: 10 V Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Stainless Steel 316L/1.4405; Ceramics (99.9% AI2 O3); PTFE; Ra < 0.4/R: M12 Connector; Gold-Plated Contacts n.c. = Not Connected ¹) To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ***) With Temperature Fluctuations < 10 K	ENGLOUYENG1000-4-2 ESD: 4kV CD / 8 kV ADENG1000-4-3 HF Radiated: 10V/mENG1000-4-4 Burst: 2kVEN 61000-4-5 Surge: 0.5/1 kVEN 61000-4-6 HF Conducted: 10 VMaterialsStainless Steel 316L/1.4404; PTFE; ULTEM; VitonStainless Steel 316L/1.4404; PTFE; ULTEM; VitonStainless Steel 316L/1.4435; Ceramics (99.9% AI2 O3); PTFE; Ra < 0.4/Rz 4	DIN IEC 68-2-6: 20 g (10 2000Hz)
ENGENG1000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.5/1 kV EN61000-4-6 HF Conducted: 10 VHousing MaterialsStainless Steel 316L/1.4404; PTFE; ULTEM; VitonMaterials Wetted SurfacesStainless Steel 316L/1.4435; Ceramics (99.9% AI2 O3); PTFE; Ra < 0.4/Ri M12 Connector; Gold-Plated ContactsRemarksn.c. = Not Connected 1) To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) ***) With Temperature Fluctuations < 10 K ****) In % of Span per Year	EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.5/1 kV EN61000-4-6 HF Conducted: 10 V Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Stainless Steel 316L/1.4405; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/Rz 4 M12 Connector; Gold-Plated Contacts n.c. = Not Connected ¹) To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ****) In % of Span per Year ****) Maximun Fault Current < 21.8 mAmp	100 Million
ENG1000-4-4 Burst: 2kVENG1000-4-4 Burst: 2kVENG1000-4-5 Surge: 0.5/1 kVENG1000-4-6 HF Conducted: 10 VHousing MaterialsMaterials Wetted SurfacesConnectionRemarksn.c. = Not Connected') To EN50178, SELV, PELV*) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086)***) With Temperature Fluctuations < 10 K	ENG1000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.5/1 kV EN 61000-4-6 HF Conducted: 10 V Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/Rz 4 M12 Connector; Gold-Plated Contacts n.c. = Not Connected ¹) To ENS0178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) ***) With Temperature Fluctuations < 10 K ****) In % of Span per Year ****) Maximun Fault Current < 21.8 mAmp	EN61000-4-2 ESD: 4kV CD / 8 kV AD
EN 61000-4-5 Surge: 0.5/1 kV EN 61000-4-6 HF Conducted: 10 V Housing Materials Materials Wetted Surfaces Connection Remarks n.c. = Not Connected ') To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) ***) With Temperature Fluctuations < 10 K	EN 61000-4-5 Surge: 0.5/1 kV EN61000-4-6 HF Conducted: 10 V Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/Rz 4 M12 Connector; Gold-Plated Contacts n.c. = Not Connected ¹) To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) ***) With Temperature Fluctuations < 10 K ****) In % of Span per Year *****) Maximun Fault Current < 21.8 mAmp	EN61000-4-3 HF Radiated: 10V/m
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Housing Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton Materials Wetted Surfaces Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/R:	Materials Stainless Steel 316L/1.4404; PTFE; ULTEM; Viton s Wetted Surfaces Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/Rz 4	EN 61000-4-5 Surge: 0.5/1 kV
Materials Wetted Surfaces Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/R: Connection M12 Connector; Gold-Plated Contacts Remarks n.c. = Not Connected ') To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) ***) With Temperature Fluctuations < 10 K	s Wetted Surfaces Stainless Steel 316L/1.4435; Ceramics (99.9% Al2 O3); PTFE; Ra < 0.4/Rz 4	EN61000-4-6 HF Conducted: 10 V
Connection M12 Connector; Gold-Plated Contacts Remarks n.c. = Not Connected ') To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) ***) With Temperature Fluctuations < 10 K	M12 Connector; Gold-Plated Contacts n.c. = Not Connected 1) To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K	
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 ¹) To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ***) In % of Span per Year 	 ¹) To EN50178, SELV, PELV *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ***) In % of Span per Year ****) Maximun Fault Current < 21.8 mAmp 	M12 Connector; Gold-Plated Contacts
 *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ***) In % of Span per Year 	*) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ***) In % of Span per Year ****) Maximun Fault Current < 21.8 mAmp	
(limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ***) In % of Span per Year	(limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ***) In % of Span per Year ****) Maximun Fault Current < 21.8 mAmp	
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Wiring	∫PA+	
Wiring		

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