

CHICAGO STAINLESS EQUIPMENT

INDUSTRIAL PRESSURE TRANSMITTER/SWITCH WITH DISPLAY

PN20 SERIES

1/4" Male NPT Process Connection

2 Outputs:

OUT1 = Switching Output
OUT2 = Switching or Analog Output
4 to 20 mAmp / 0 to 10 V Output

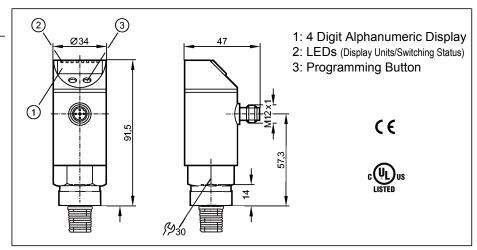
4 Digit LCD Display

Simple Pushbutton Set-Up

Zero & Span Adjustable

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

Available in the following Ranges and % of Span with Field Selectable Scale



<u>Model</u>	<u>PSI</u>	BAR	<u>MPa</u>	<u>"H2O</u>	mBAR	<u>kPa</u>
PN2009	-14.50 to 14.50			-401.4 to 401.4	-1000 to 1000	
PN2028	-00.18 to 3.630			-05.00 to 100.4	-12.50 to 250.0	-01.25 to 25.00
PN2027	-00.58 to 14.50			-20.07 to 401.4	-050.0 to 1000	-05.00 to 100.0
PN2026	-01.45 to 36.26	-00.13 to 02.50				-12.50 to 250.0
PN2024	-14.50 to 145.0	-01.00 to 10.00				-100.0 to 1000
PN2023	-14.50 to 362.5	-01.00 to 25.00	-00.10 to 02.50			
PN2022	00.00 to 1450	00.00 to 100.0	00.00 to 10.00			
PN2021	00.00 to 3630	00.00 to 250.0	00.00 to 25.00			
PN2020	00.00 to 5800	00.00 to 400.0	00.00 to 40.00			

Applications

Electrical Design

Output

Operating Voltage	[V]
Current Rating (mAmps)	
Short-Circuit Protection	
Reverse Polarity Protection	
Overload Protection	
Integrated Watchdog	
Voltage Drop	
Current Consumption (mAmp)	
Analog Output	
Load for Analog Output (ohms)	
Pressure Rating (min)	
Bursting Pressure (min)	
Accuracy / Doviations	

Type of Pressure: Relative Pressure Liquids and Gases DC PNP/NPN

2 x Normally Open/Closed Programmable or 1 x Normally Open/Closed Programmable + 1 x Analog (4...20mA / 0 to 10 V; Programmable 1:4)

2030 Volts DC
2 x 250
Yes (Non-Latching)
Yes
Yes
Yes
< 2
< 65
4 20 mAmp / 010 V
420 mAmp: max. (Ub - 10 V) x 50 / 010 V: min. 2000
1.5 x Pressure Rating
2.5 x Pressure Rating

< ± 0.5
< ± 0.25 (BFSL) ;/ < ± 0.5 (LS)
< ± 0.5
< ± 0.1
< ± 0.1
< ± 0.1

(in % of the Span Per 10 K)			
Greatest TEMPCO of the Zero Point	< ± 0.1		
Greatest TEMPCO of the Span	< ± 0.2		



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Power-On Delay Time (sec)	0.2
Min. Switching Response Time (ms)	3
Switching Frequency (Hz)	≤ 160
Response Time Analog Output (ms)	3
Ambient Temperature (°C)	-2580
Medium Temperature (°C)	-2580
Storage Temperature (°C)	-40100
Protection	IP65, III
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)
Switching Cycles min.	100 Million
EMC	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
Housing Materials	Stainless Steel 304 & 316L/1.4404; PC (Makrolon); PBT (Pocan); PEI; FPM (Viton); PTFE
Materials Wetted Surfaces	Stainless Steel 303S22; Ceramics (99.9% AI2 O3); FPM (Viton)
Connection	M12 Connector; Gold-Plated Contacts
Remarks	The devise shall be supplied from an isolating source and protected
	by an overcurrent device such that the limited voltage circuit
	requirements in accordance with UL 508 are met.

*) BFSL = Best Fit Straight Line / LS = Limit Value Setting

**) With Temperature Fluctuations < 10 K

***) In % of Span per Year

Wiring

Programmin of the Output Function: OUT1/OUT2

Hno = Hysteresis / Normally Open

Hnc = Hysteresis / Normally Closed

Fno - Window Function / Normally Open

Fnc = Window Function / Normally Closed

Complementary Outputs:

Output 1: = Hno, Output 2 = Hnc

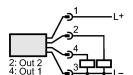
(with same SP / rP)

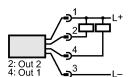
Programming of the Analog Output (OUT2)

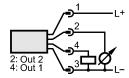
I = Current Output (4...20 mAmp)

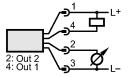
U = Voltage Output (0...10 V)











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