



PRESSURE WET GAUGE TRANSMITTER

The PWGS (Pressure Wet Gauge transmitter) is a compact and highly reliable pressure transmitter built on a proven polysilicon thin-film technology. It features a robust, seal-free stainless steel measuring cell designed for precise measurement of relative pressures up to 10,000 psi. With exceptional burst pressure resistance and long-term stability, the PWGS is ideal for demanding environments.

Engineered for compatibility with liquids and gases—including all common refrigerants and ammonia—the PWGS is well-suited for a wide range of applications, from industrial processes and HVAC systems to railway components.

SPECIFICATIONS			
MEASUREMENT RANGE	See Pressure range table below		
ACCURACY @72°F ±2°F (22°C ±1°C)	$\pm 0.50\%$ span Includes Non-linearity, Hysteresis. Non repeatability, zero offset and span setting errors at reference temperature		
STABILITY	Stability ≤ ±0.25% of span/year		
OUTPUT	Current: 4-20mA (2-wire, loop powered)		
	Voltage: 0-5Vdc, 0-10Vdc (3-wire)		
POWER SUPPLY	9-32VDC (4-20mA signal) max supply current @ 20mA 9-32VDC (0-5V signal) 14-32VDC (0-10V signal) max supply current @ 11mA		
INSULATION WITHSTAND VOLTAGE	500VAC		
CIRCUIT PROTECTION	Reverse polarity and miswire protection		
VIBRATION	Random vibration (20g) RMS;20-2000Hz per IEC 60068-6-4		
RESPONSETIME	5 ms max		
PROCESS PORT	1/4" NPT Male		
WETTED MATERIALS	Sensor diaphragm: 316L Stainless steel (for range up to max pressure range 3,000 psi) 304 Stainless steels (from 4000 psi max pressure up to 10,000psi) Pressure connection: 316L Stainless steel		
ELECTRICAL TERMINATION	EN 175301-803 Form C (DIN 43650, Form C), IP65, Nema 4X Shielded cable with PVC jacket and 24 AWG leads, IP67, Nema 6X		
OPERATING CONDITIONS	-40 to 125°C (-40 to 257°F)		
STORAGE CONDITIONS	-50 to 125°C (-58 to 257°F)		
DEGREE OF PROTECTION	IP67/NEMA 6X for models with factory cable IP65/Nema 4X for model with conduit connectivity		
CERTIFICATION	CE, ROHS		
COUNTRY OF ORIGIN	Canada		







RESSURE RANGE TABLE				
OPERATING PRESSURE RANGE	PROOF PRESSURE	BURST PRESSURE		
15 PSI/-14.7 PSI	2x	50X		
30 PSI/-14.7 PSI	2x	50X		
60 PSI/-14.7 PSI	2x	50X		
100 PSI/-14.7 PSI	2x	50X		
150 PSI/-14.7 PSI	2x	50X		
15 PSI	2x	50X		
25 PSI	2x	50X		
50 PSI	2x	50X		
100 PSI	2x	50X		
150 PSI	2x	50X		
200 PSI	2x	50X		
250 PSI	2x	50X		
300 PSI	2x	50X		
500 PSI	2x	50X		
1,000 PSI	2x	50X		
3000 PSI	2x	5x (See note 1)		
5,000 PSI	1.5X	4X		
10,000 PSI	1.2X	3X		

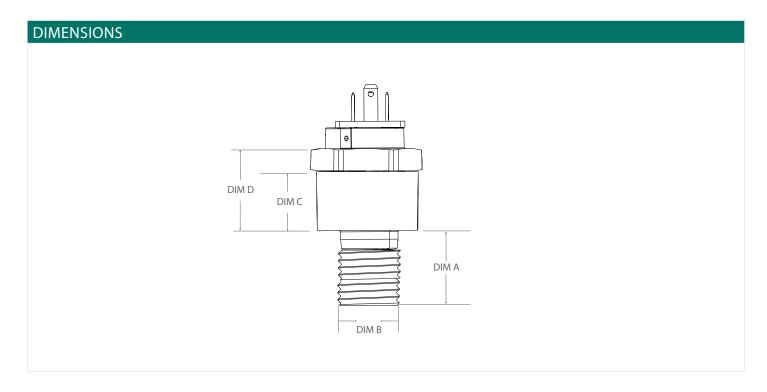
Note 1: Burst rating for 3000 psi with 316L SS is 3x only

ORDERING			
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SERIES	PRESSURE RANGES	OUTPUT TYPE	CABLE TYPE
PWGS	01	20 4-20mA 05 0-5VDC 10 0-10VDC	Conduit connection Standard FT6, 3m (10FT)

WIRING INFORMATION					
FOR PWGSXXXXC00 MODELS		F	OR PWGSXXXXS03 MOI	DELS	
PIN#	VOLTAGE FUNCTION	CURRENT FUNCTION	WIRE COLOR #	VOLTAGE FUNCTION	CURRENT FUNCTION
1	V+	V+	Red	V+	V+
2	1 V-(common)	V-	Black	Common	V-
3	Output	V-	White	Output	n/a
4	Ground	Ground	Drain	n/a	n/a

Note 2: See Installation Instruction for more information





	PRESSURE RANGE BELOW 100 PSI	PRESSURE EQUAL OR GREATER THAN 100 PSI
DIM A	14.7mm (0.58")	14.7mm (0.58")
DIM B	13.5mm (0.53")	13.5mm (0.53")
DIM C	12.9mm (0.51")	6.8mm (0.27")
DIM D	22mm (0.87")	15.9mm (0.63")

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