

HydroMode™ WPT25 Series Pressure Transmitters

Part No. [WPT25-20-0015H](#)

The HydroMode WPT25 pressure transmitter series is UL Classified for NSF/ANSI/CAN 61 and 372, making it ideal for drinking water pressure measurement applications. Additionally, other media pressure sensing applications are possible due to the robust all stainless steel welded sensing element and wetted materials. The WPT25 series features full scale pressure ranges from 15 to 300 psig with a <1% Total Error Band over 0 to 50°C for optimum performance.

The HydroMode WPT25 series includes a 1/4" NPT male threaded process connection and industry standard, 2-wire, 4-20mA analog output with M12 quick disconnect that simplifies interface to controls, data collection, and telemetry systems.

Features

- UL Classified NSF/ANSI/CAN 61 and 372 for drinking water applications
- < ±1% Total Error Band (TEB) accuracy over 0...50°C
- 316L Stainless Steel wetted materials
- Full scale ranges from 15 to 300 psig
- 2-wire, 4-20mA output
- 2-year warranty



HydroMode WPT25 Series Pressure Transmitters											
Part Number	Description	Range	Accuracy	Sensing Element	Output	Process Connection	Operating Voltage	Electrical Connection	Price	Drawing Link	Wt (lb)
WPT25-20-0015H	HydroMode pressure transmitter	0 to 15 psig	< ±1%	316L Stainless Steel	4-20 mA analog	1/4" male NPT	8 to 32 VDC	4-pin M12 quick-disconnect	\$95.00	PDF	0.123
WPT25-20-0030H		0 to 30 psig							\$95.00	PDF	0.123
WPT25-20-0050H		0 to 50 psig							\$95.00	PDF	0.118
WPT25-20-0100H		0 to 100 psig							\$95.00	PDF	0.118
WPT25-20-0150H		0 to 150 psig							\$95.00	PDF	0.123
WPT25-20-0200H		0 to 200 psig							\$95.00	PDF	0.118
WPT25-20-0300H		0 to 300 psig							\$95.00	PDF	0.118



Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

See our website www.AutomationDirect.com for complete Engineering drawings.

HydroMode WPT25 Series General Specifications		
Pressure Ranges		
Relative Pressure	0 to 15, 30, 50, 100, 150, 200, 300 psig	
Proof Pressure	300% of full scale	
Burst Pressure	500% of full scale	
Accuracy		
Static	±0.25% FS Typical (±0.5% FS Max.)	Non-linearity best fit straight line (BFSL), hysteresis, non-repeatability at room temperature
Total Error Band (0 to 50°C)	±1.0% FS Max.	Maximum deviation within the specified pressure and temperature range
Total Error Band (-10- to 80°C)	±1.5% FS Max.	
Compensated Temperature Range	-10 to 80°C	
Long Term Stability	≤ ±0.3% FS	Per year under reference conditions
Position Dependency	≤ ±0.02 PSI	Calibrated in vertical installation with pressure connection facing downwards.

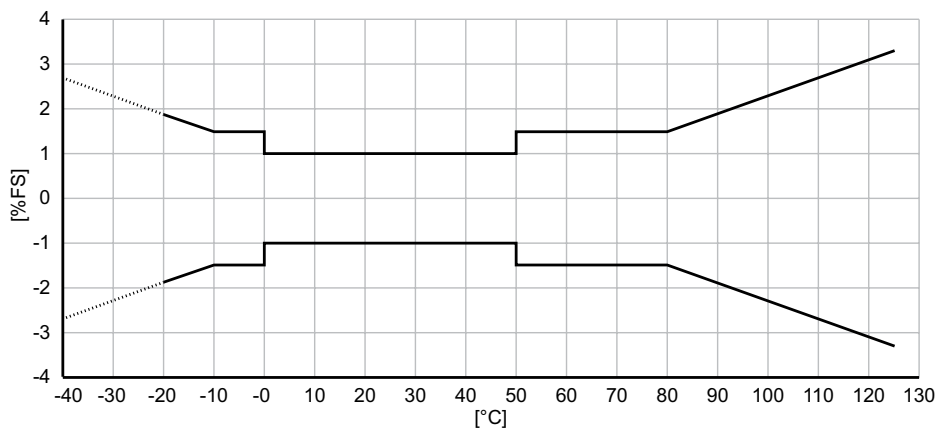
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HydroMode WPT25 Series General Specifications Continued	
Electrical	
Output	4 to 20 mA
Supply	8 to 32 VDC
Load Resistance (mA)	< (Supply-8V) / 0.025 A
Limiting Frequency	1 KHz
Startup Time (power supply ON)	< 5ms (0 to 99%)
Overvoltage and Reverse Polarity Protection	± 32VDC
GND-CASE Insulation	> 10MΩ @ 300VDC
Connection	
Process	1/4" male NPT
Electrical	DIN EN 61076-2-101 A-code 4-pin M12 (purchase cable separately)
Environmental	
Protection Rating	IP54
Operating Temperature	-20 to 125°C
Wetted Materials	316L Stainless Steel
Housing Material	Grivory HTV-4H1, 316L Stainless Steel
Shock	50g (11ms) IEC 60068-2-27
Vibration	10g, 10 to 2000Hz, ±10mm IEC 60068-2-6
Certifications	
CE (EMC)	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61326-1, EN61326-2-3
Drinking Water	UL Classified: NSF/ANSI/CAN 61 and 372



Warning! Avoid static and dynamic overpressure exceeding the given overload pressure. Exceeding the burst pressure for even a short time can cause destruction of the unit and possible injuries!

Total Error Band



This graph shows the maximum deviation over the entire temperature range (-20...125°C).

Within the specified pressure and temperature range, the maximum total error has a constant value of ± 1.0 %FS (0...50 °C) or ± 1.5 %FS (-10...80 °C).

Experience shows that outside the specified temperature range, the total error increases linearly by 0.04 %FS/K.

WPT25 Wiring

Standard 4-20mA



Pin 1 - +Vcc
 Pin 2 - No Connection
 Pin 3 - OUT/GND
 Pin 4 - No connection

2-Wire Current Loop

