

REMOTE SENSOR LIQUID PRESSURE TRANSMITTERS WPR Series



Precision pressure control/sensing

FEATURES:

- Differential and gauge pressure models
- FT6 or Armoured cable available in different lengths
- Four, switch selectable, ranges per model
- Jumper selectable outputs: 4-20mA, 0-5 Vdc or 0-10 Vdc
- Optional backlit (jumper-selectable) LCD
- All stainless steel sensor construction
- Port swap switch to correct incorrect plumbing
- Switch selectable uni or bi-directional
- IP65 (Nema 4X) hinged enclosure

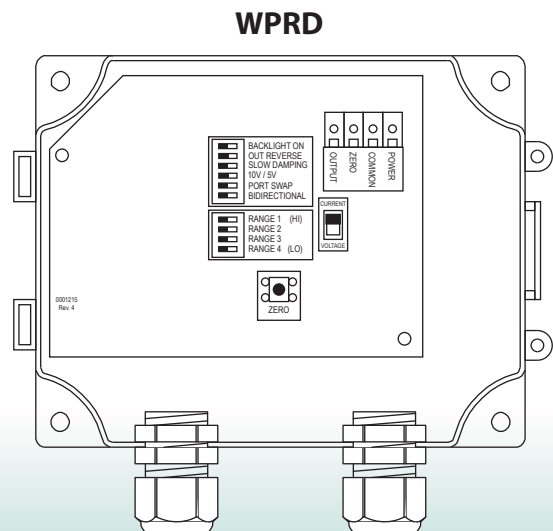
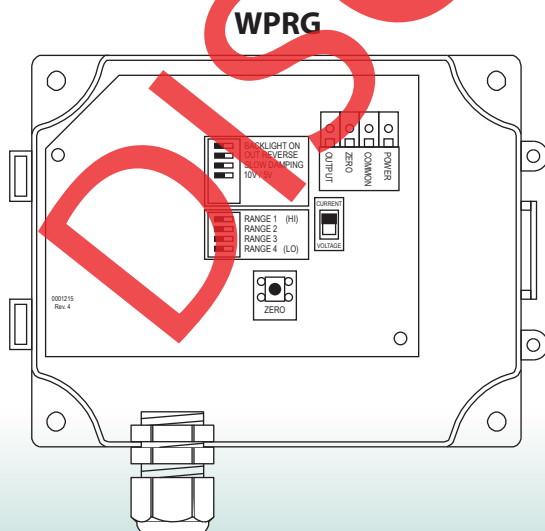
*Peace of mind
through reliable
pressure monitoring*

APPLICATIONS:

- Pump Monitoring
- Filter Monitoring
- Chiller Monitoring
- HVAC Systems

SPECIFICATIONS:

Media Compatibility.....	17-4 PH stainless steel
Pressure Ranges	4 ranges per model - Switch selectable
	0-5/10/25/50 psig/d 0-.5/1/2.5/5 Bar 0-50/100/250/500 kPa
	0-10/20/50/100 psig/d 0-.75/1.5/3.75/7.5 Bar 0-75/150/375/750 kPa
	0-20/40/100/200 psig/d 0-1/2/5/10 Bar 0-100/200/500/1000 kPa
	0-50/100/250/500 psig/d 0-3/6/15/30 Bar 0-300/600/1500/3000 kPa
Line Pressure	Max. line pressure is the highest of the selectable ranges on each model i.e.: WPRD101 has a maximum line pressure of 50 psi
Proof Pressure	Max. 2X highest range per model
Burst Pressure	Max. 5X highest range per model
Accuracy	± 1% F.S. of range selected with combined linearity, hysteresis, and repeatability
Pressure Cycles	>100 million
Surge Damping	Normal: 4 second averaging Slow: 8 second averaging, switch selectable
Sensor Operating Range.....	-40° to 85°C (-40° to 185°F)
Compensated Range	0° to 55°C (32° to 130°F)
Operating Environment	0° to 50°C (32° to 122°F), 10-90% RH condensing
Stability	±0.25% typical (1 year)
Zero Adjust	Push-button auto-zero and digital input
Power Supply.....	18 to 28 Vac/Vdc (non-isolated half-wave rectified)
Consumption	100 mA max @ 24 Vdc with LCD backlight, 35 mA with backlight disabled
Output Signal.....	3-wire transmitter; user selectable 4-20mA active(sourcing), 0-5 Vdc and 0-10 Vdc
Pressure Connections	1/4" NPT male
Sensor Shock.....	100G, 11 mSec, 1/2 sine
Sensor Vibration.....	10G peak 20 to 2000 Hz 10K ohms min for voltage output
Remote Cable	S = FT6 Plenum Rated A = Armoured
Enclosure.....	ABS, hinged lid with gasket, IP65 (Nema 4X) 145 X 100 X 64 mm (5.7" X 3.95" X 2.5")
Wiring Connections.....	Screw terminal block (14 to 22 AWG)
Optional LCD Display	35 mm x 15 mm (1.4" w x 0.6" h) alpha-numeric 2 line x 8 character Resolution - 1 psi Backlight - Enable or disable via jumper



DESCRIPTION:

The WPR Series remote pressure transmitters allow remote pressure sensing using existing plumbing runs. With no need to run plumbing lines all the way to the transmitter, the installation time and cost is greatly reduced. The WPR is available with either standard FT6 or armored cable in 5' or 10' (1.5 m or 3 m) cable lengths.

The WPRD differential pressure transmitter is designed with dual remote sensors that enable it to accept high differential pressure ranges. The WPRG gauge pressure transmitter is designed with a single remote sensor that enables it to accept high pressures ranges.

Both transmitters can accept ranges from 5 PSI to 500 PSI. All models can handle overload pressure 2X the maximum full scale range and burst pressure is 5X the maximum full scale range. Features include field selectable pressure ranges and output signal types for the most flexible applications. Typical HVAC applications include monitoring of liquid differential and gauge pressure. The output signal is factory calibrated and temperature compensated for the highest start-up accuracy.

NOTE: When choosing pressure range ensure that the maximum individual port pressure does not exceed the maximum pressure range of the unit. For example, the maximum individual port pressure of the WPRD102S05 is 100 PSI. Exceeding this may cause damage to the sensors and will give erroneous readings.

PRODUCT ORDERING INFORMATION:

MODEL	Description
WPR	Liquid Pressure Transmitter with Remote Sensors

CODE	Option
G	Gauge Pressure
D	Differential Pressure

CODE	Pressure ranges
101	5, 10, 25 and 50 PSI ranges
102	10, 20, 50 and 100 PSI ranges
103	20, 40, 100 and 200 PSI ranges
104	50, 100, 250 and 500 PSI ranges
105	0.5, 1.0, 2.5 and 5.0 Bar
106	0.75, 1.50, 3.75 and 7.50 Bar
107	1, 2, 5 and 10 Bar
108	3, 6, 15 and 30 Bar
109	50, 100, 250 and 500 kPa
110	75, 150, 375 and 750 kPa
111	100, 200, 500 and 1000 kPa
112	300, 600, 1500 and 3000 kPa

CODE	Option
S05	5' (1.5 m) FT6 Cable
S10	10' (3 m) FT6 Cable
A05	5' (1.5 m) Armoured Cable
A10	10' (2 m) Armoured Cable

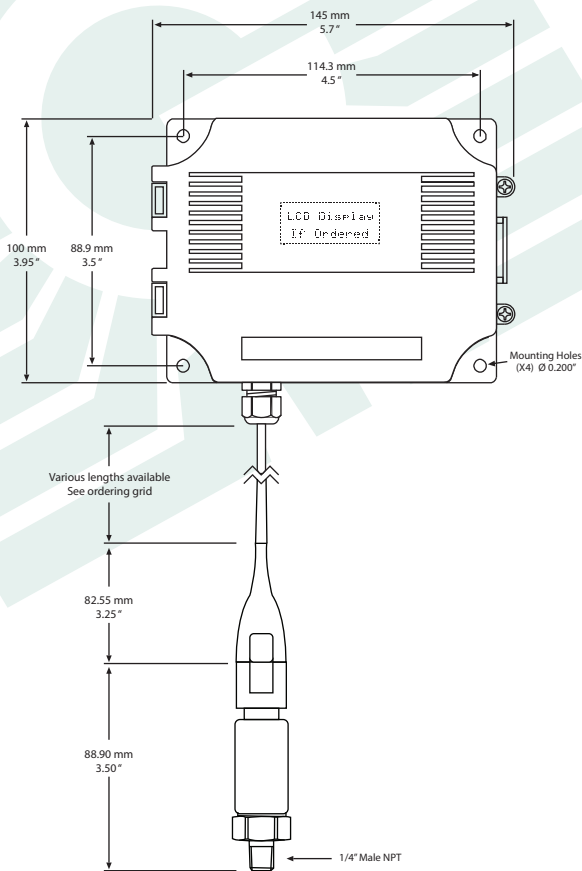
CODE	Option
-	None (Leave Blank)
LCD	Backlit LCD

WPR	D	101	S05	LCD
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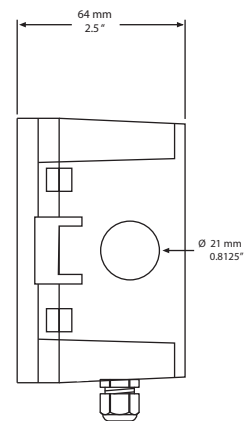
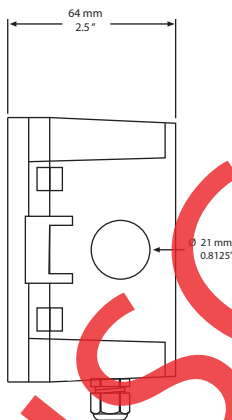
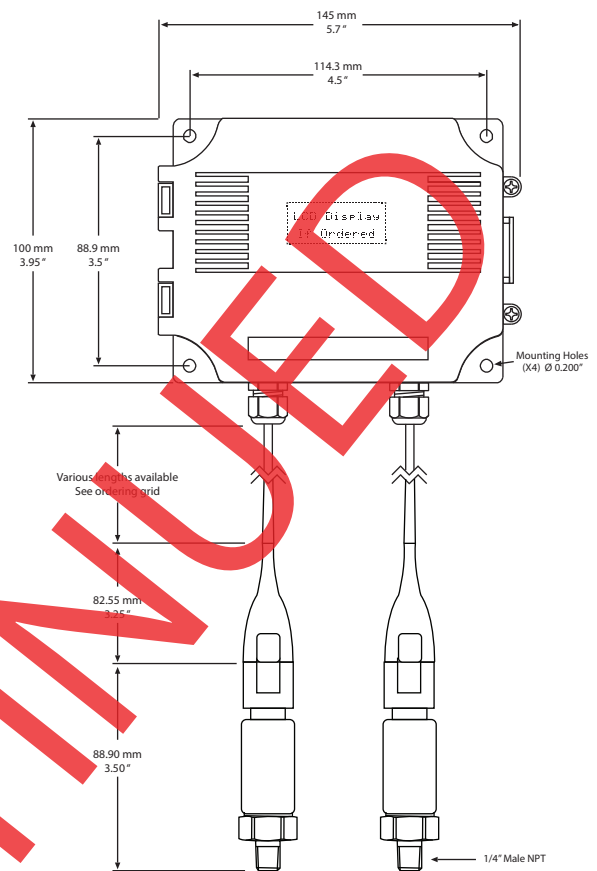
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DIMENSIONS:

WPRGXXX



WPRDXXX



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Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.

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