



# GREYSTONE

ENERGY SYSTEMS INC

The WPRD Series differential pressure transmitter with remote pressure sensors allow for 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 WPRD is available with either standard FT6 or armored cable in 5 or 10' (1.5 m or 3 m) cable lengths.

The WPRD can accept ranges from 5 PSI to 500 PSI. All models can handle overload pressure 2X 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.

## SPECIFICATIONS:

Media Compatibility .....	17-4 PH stainless steel
Pressure Ranges.....	4 switch selectable ranges per model - See ordering
Line Pressure .....	Max. line pressure is the highest of the selectable ranges on each model
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; selectable 4-20mA active (sourcing), 0-5 or 0-10 Vdc
Pressure Connections.....	1/4" NPT male
Remote Cable.....	S = FT6 Plenum Rated A = Armoured Flexible S/S
Enclosure .....	ABS, UL94-5VB hinged lid with gasket, IP65 (Nema 4)
Dimensions .....	145 X 100 X 64 mm (5.7" X 3.95" X 2.5")
Shock .....	100G, 11 mSec, 1/2 sine
Vibration .....	10G peak 20 to 2000 Hz
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

## DIFFERENTIAL PRESSURE TRANSMITTER WITH REMOTE SENSORS WPRD Series



PART NUMBER SELECTED

## PRODUCT SELECTION INFORMATION:

MODEL	Product Description
WPRD	Differential Pressure Transmitter with Remote Sensors

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

CODE	Pressure Ranges
-	None
LCD	Backlite LCD

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

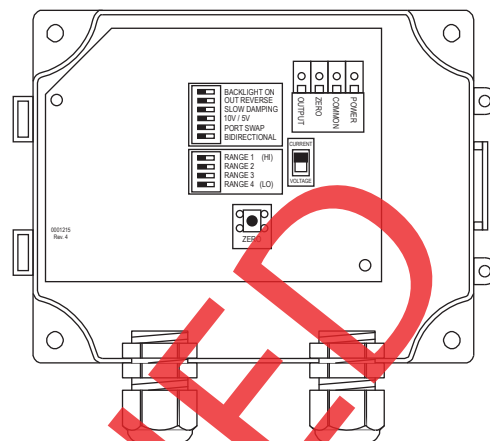
**NOTE: When choosing pressure range ensure that the maximum individual port pressure does not exceed the maximum pressure range of the unit. For example, the maximum individual port pressure of the WPRD102S05 is 100 PSI. Exceeding this may cause damage to the sensors and will give erroneous readings.**

## TYPICAL INSTALLATION:

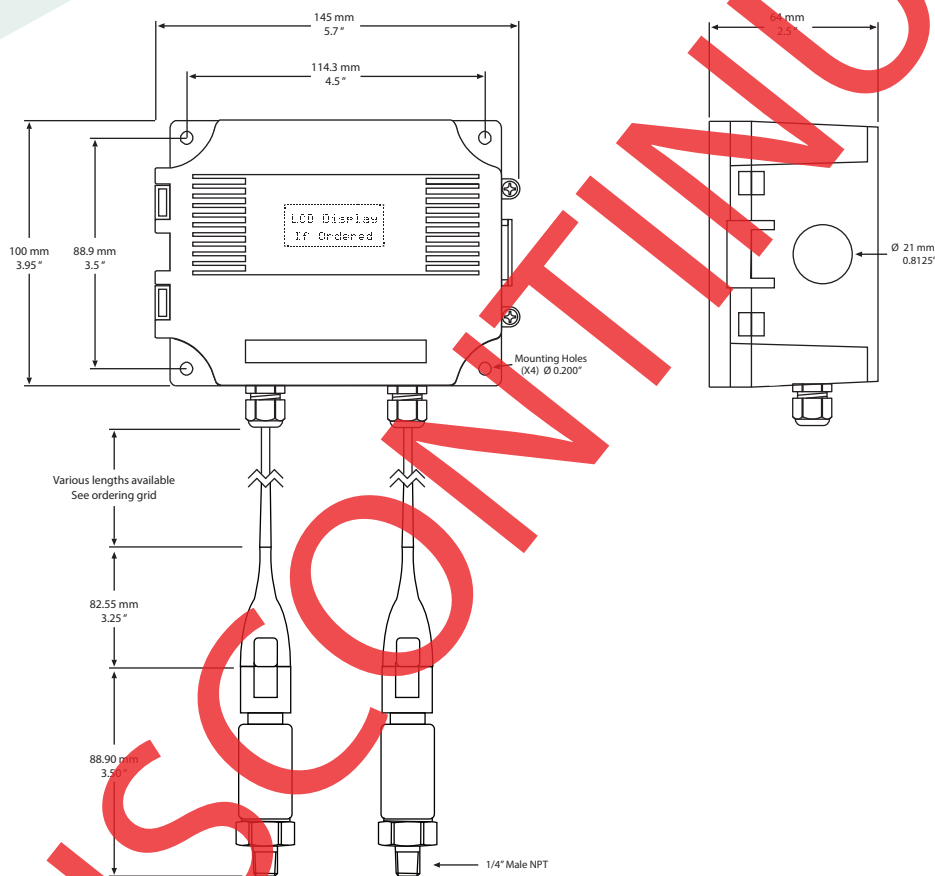
For complete installation and wiring details, please refer to the product installation instructions.

The WPRD enclosure mounts on any surface using the four holes provided on the base of the unit. Make sure there is enough space around the unit to connect the sensor cables and electrical conduit. Avoid locations where severe vibrations or excessive moisture are present.

The unit may be mounted in any position but typically is installed on a vertical surface with pressure cable on the bottom. The enclosure has a standard opening for a 1/2" conduit and may be installed with either conduit and a conduit coupler or a cable gland type fitting.



## DIMENSIONS:



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RoHS  
COMPLIANT



*Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC sensors and transducers 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.*

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM