



# GREYSTONE

ENERGY SYSTEMS INC

## GAGE PRESSURE TRANSMITTER WP-G Series

The WP-G gage pressure transmitter is designed with a single sensor that enables it to accept high pressures ranges in 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, output signal types, out reversal and damping for the most flexible applications. The output signal is factory calibrated and temperature compensated for the highest start-up accuracy.

### 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
Operating Humidity	0 to 95% RH non-condensing
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	1/8" NPT female
Enclosure	ABS, 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



### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

MODEL	Product Description
WP-G	Gage Pressure Transducer

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
LCD	Backlit LCD

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

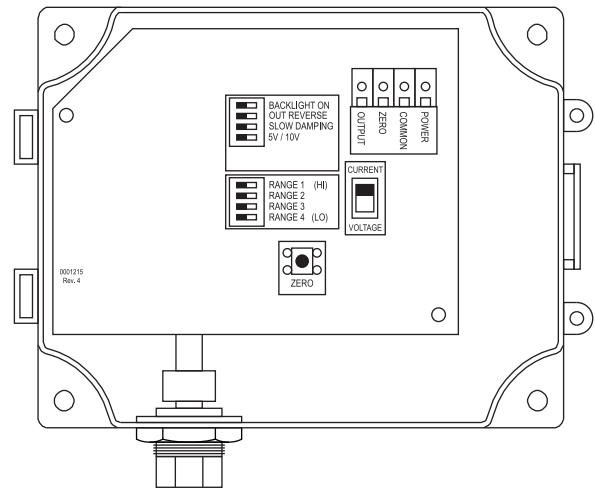
**EXAMPLE: Gage pressure, 10, 20, 50,100 psi , w/ LCD**

## TYPICAL INSTALLATION:

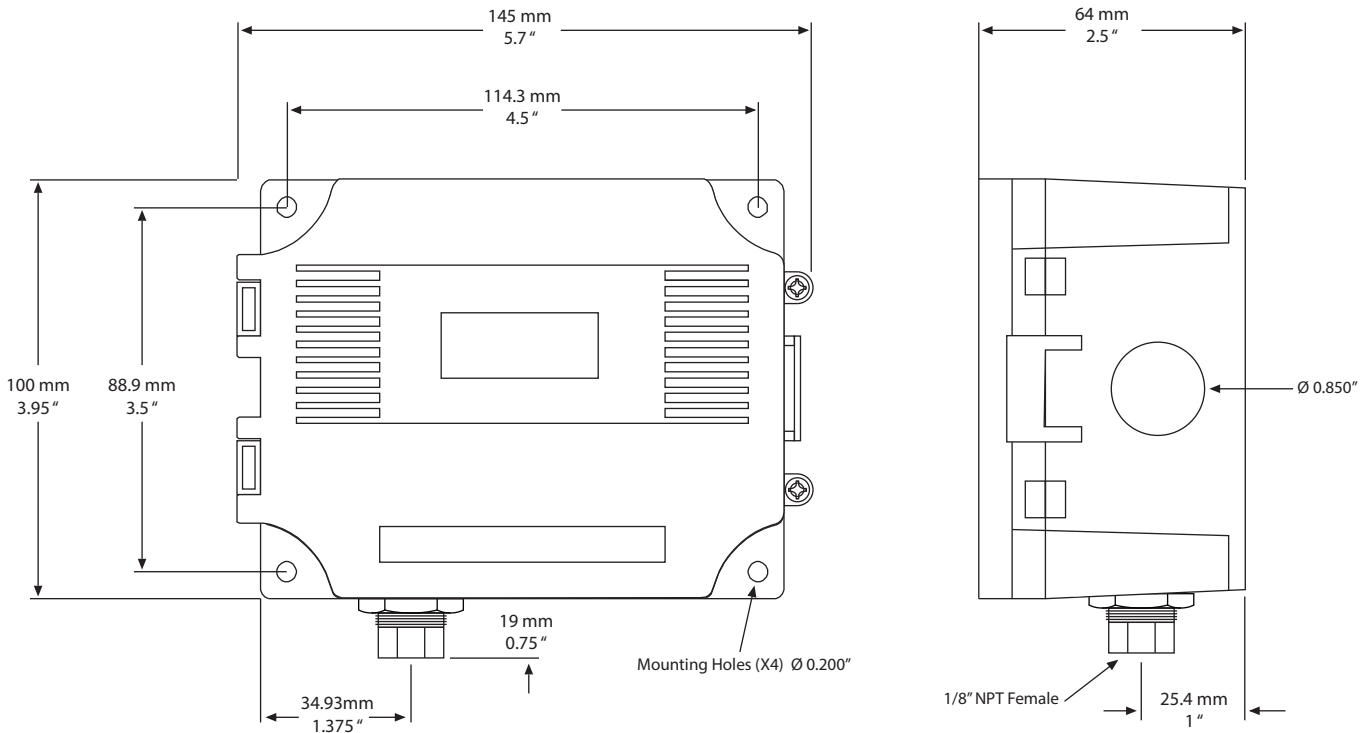
For complete installation and wiring details, please refer to the product installation instructions.

The WP 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 pressure tubing without kinking and 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 ports on the right and the cable entrance on the left. 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