



# GREYSTONE

ENERGY SYSTEMS INC

## HIGH ACCURACY LOW PRESSURE TRANSMITTER HALP3 Series

The HALP3 series is used to measure positive, negative or differential pressure. The piezoresistive sensor is ideal for monitoring the pressure of air or other clean inert gas. Typical HVAC applications include monitoring of filter differential pressure or VAV applications. An integrated static pressure probe provides ease of installation for duct mounting. Several accessories are available.

### SPECIFICATION:

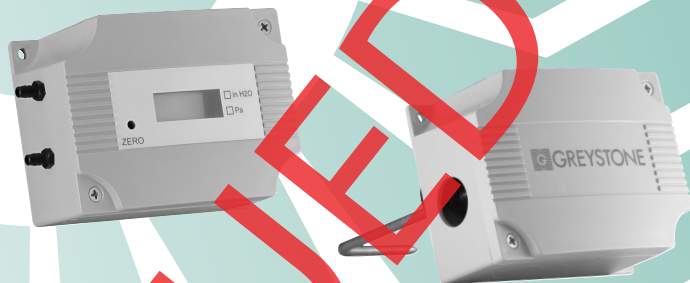
Accuracy .....  $\pm 0.5\%$  F.S.O.  
Measurement Type ..... Differential (two port), Static, Velocity, & Total Pressure  
Response Time ..... 250 ms  
Stability .....  $< \pm 0.5\%$  F.S.O. per year  
Thermal Effects .....  $< \pm 3\%$  over compensated range  
Compensated Range ..... 0 - 50° C (32 - 122°F)  
Proof Pressure ..... 40" W.C. (100" for 10" & 20" Models)  
Burst Pressure ..... 60" W.C. (200" for 10" & 20" Models)  
Operating Conditions ..... 0 - 70° C (32 - 158°F),  
10 - 90 %RH, non-condensing  
Power Supply ..... 20 - 28 Vac/dc  
(non-isolated half-wave rectified)  
Supply Current .....  $< 4$  mA  
Input Voltage Effect ..... Negligible over operating range  
Protection Circuitry ..... Reverse voltage protected and output limited  
Output Signal ..... 4-20 mA (2-wire), 0-5 or  
0-10 Vdc (3-wire), switch selectable  
Output Drive Capabilities ..... Current: 400 ohms max @ 24 vdc  
Voltage: 10K ohms min  
Zero Adjustments ..... Pushbutton auto-zero  
Wiring Connections ..... Screw terminal block (14 to 22 AWG)  
Pressure Connection ..... Barbed ports for 5 mm (0.170" ID) flexible tubing  
Conduit Connection ..... 1/2" NPT conduit or cable gland  
Optional Display ..... 3 1/2 digit LCD, 0.4" digit height  
Enclosures ..... ABS, plenum rated  
Weight ..... 159 grams (5.6 oz)

### TYPICAL INSTALLATION:

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

The HALP3 mounts on any surface using the two 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. If the unit has the integrated static pressure probe, drill a hole in the duct and insert so the probe point is facing into the airflow. 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.



### PART NUMBER SELECTED

### PRODUCT SELECTION INFORMATION:

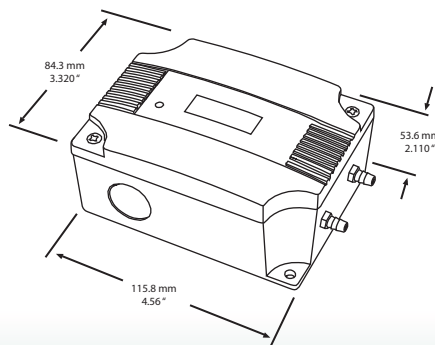
MODEL	Product Description
HALP3	High Accuracy Low Pressure Transmitter

CODE	Options
A	Standard
B	LCD Display

CODE	Range
00	$\pm 1"$ , $\pm 2"$ , $\pm 4"$ , 0-1", 0-2", 0-4" W.C.
01	$\pm 3"$ , $\pm 5"$ , $\pm 8"$ , 0-3", 0-5", 0-8" W.C.
02	$\pm 6"$ , $\pm 10"$ , $\pm 12"$ , 0-6", 0-10", 0-12" W.C.
03	$\pm 10"$ , $\pm 15"$ , $\pm 20"$ , 0-10", 0-15", 0-20" W.C.
04	$\pm 250$ , $\pm 500$ , $\pm 1000$ , 0-250, 0-500, 0-1000 Pa
05	$\pm 500$ , $\pm 1000$ , $\pm 2000$ , 0-500, 0-1000, 0-2000 Pa

CODE	Options
S	Integrated Static Pressure Probe

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

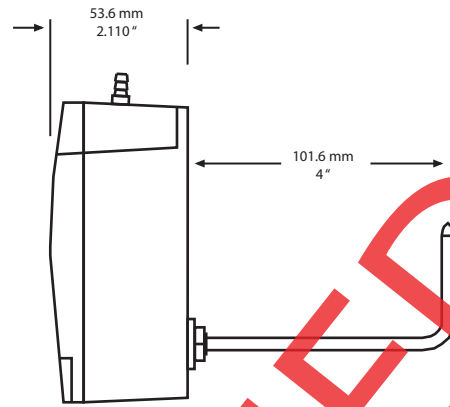
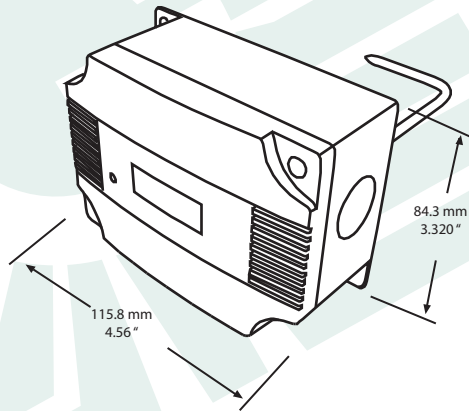


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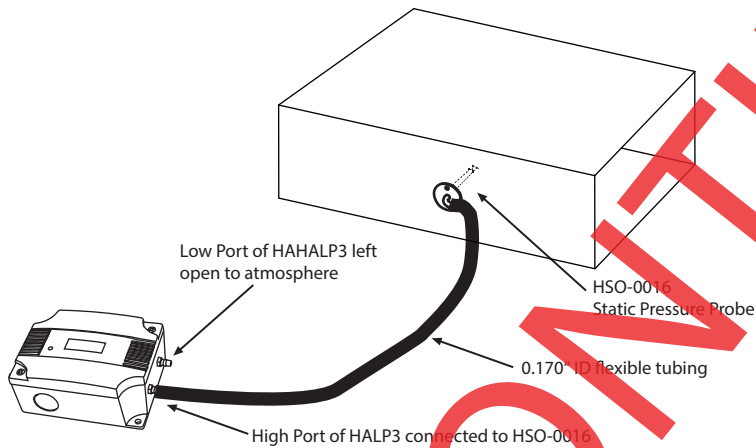


## DIMENSIONS

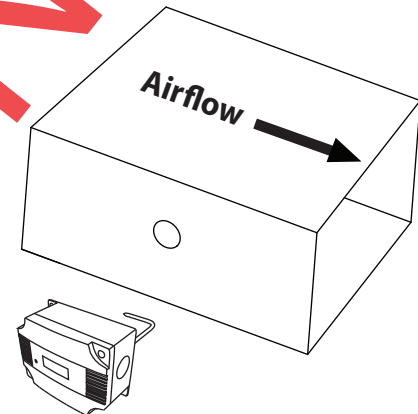


## TYPICAL INSTALLATION:

### Duct Static Pressure

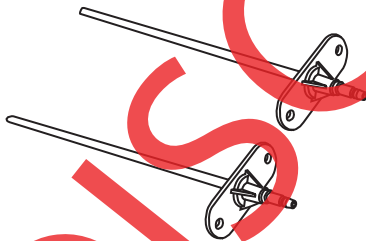


### Duct Airflow Velocity

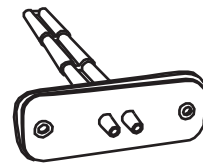


## ACCESSORIES:

### FPP & SPP - Pitot Tubes



### SSS - Differential Pressure Probe



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

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