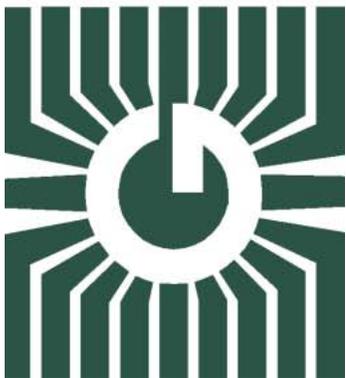


GREYSTONE
ACCURACY BY DESIGN



LOW PRESSURE TRANSDUCERS LP100 Series



Each series of Greystone low pressure transducers comes standard with an ABS enclosure. These transducers feature high level outputs, environmental protection, and temperature compensation.

FEATURES:

- Jumper selectable current and voltage outputs standard
- Current output, 4-20mA, 2-wire standard
- 24 Vac/dc power supply standard
- Sixteen variable jumper selectable pressure range's, WC &PA
- Functional weather resistant ABS Enclosure
- Optional LCD display

*Peace of mind
through reliable
pressure transducers*

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

APPLICATIONS:

- HVAC/VAV
- Process Control
- Air Flow Monitoring
- Drop Across Air Filters
- Hydraulic Pressures
- Pneumatic Pressures

SPECIFICATIONS: LP100 Series

Pressure Ranges	See ordering information
Calibration Accuracy	± 1% F.S.O.
Measurement Type	Differential (two port)
Response Time	1 mS maximum
Stability	<±1% F.S.O. per year
Thermal Effects	<±3% over compensated range
Compensated Range	10 – 50°C (50 – 122°F)
Over Pressure	20 psi or 2 x range (whichever is greater)
Operating Conditions	0 – 60°C (32 – 140°F), 10 – 90% RH non-condensing
Media Compatibility	Limited only to those that will not attack polyetherimide, silicon, fluorosilicone, silicone, EPDM, and neoprene seals. Typically dry air or inert gas but liquid is allowed.
Power Supply (at transmitter)	12 – 28 Vac, 15 – 35 Vdc (non-isolated half-wave rectified)
Supply Current	<4 mA
Input Voltage Effect	Negligible over specified operating range
Protection Circuitry	Reverse voltage protected and output limited
Output Signal	4 – 20 mA (2-wire), 0 – 5 Vdc or 0 – 10 Vdc (3-wire)
Current Output Drive Capability	400 ohms maximum @ 24 Vdc
Voltage Output Drive Capability	2 Kohms minimum
Zero Adjustment	Auto zero, push button switch
Wiring Connections	Screw terminal block (14 to 22 AWG)
Pressure Connections	Barbed ports for 0.170" ID flexible tubing
Conduit Connection	Access hole for 1/2" NPT conduit or cable gland
Enclosure	High Impact Black ABS, plenum rated with optional gasket 116 mm H x 84 mm H x 53 mm D (4.55" x 3.3" x 2.1")
LCD	Optional 3.5 digit LCD display representing sensed pressure

DESCRIPTION:

The LP-100 Low Pressure Transmitter can be used to measure positive, negative or differential pressure in the ranges of 0.25”wc to 12”wc (50 TO 2000Pa). The piezoresistive sensor is ideal for monitoring the pressure for air or other clean inert gas and is limited only to those media which will not attack polyetherimide, silicon, fluorosilicone, silicone, EPDM and neoprene seals.

The LP-100 features field selectable pressure ranges and output signal types for the most flexible application. Typical HVAC applications include monitoring of filter differential pressure or clean room pressure. The output signal is factory calibrated and temperature compensated for highest startup accuracy and trouble-free operation.

Please read these installation instructions carefully before commissioning the pressure transmitter. Failure to follow these instructions may result in product damage. A qualified technician must install this device.

The LP-100 Pressure Transmitter 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. Mount the enclosure with two user-supplied screws but do not over-tighten.

The unit may be mounted in any position but typically is installed on a vertical surface with the pressure ports on the right and the cable entrance on the left. The enclosure has a standard ½” conduit opening and may be installed with either conduit and a conduit coupler or a cable gland type fitting. Do not use in an explosive or hazardous environment, with combustible or flammable gasses, as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Use electrostatic discharge precautions during installation and do not exceed the device ratings.

JUMPER SELECTABLE LP100 SERIES: PRODUCT ORDERING INFORMATION

Model	Description		
LP1	Jumper Selectable Low Pressure Transducer		
	CODE	LCD Option	
	A	No LCD	
	B	LCD Display	
		CODE	Jumper Selectable Pressure Ranges
		00	±0.25”, ±0.5”, ±1”, ±2”, 0-0.5”, 0-1”, 0-2”, 0-4” wc
		01	±0.75”, ±1.5”, ±3”, ±6”, 0-1.5”, 0-3”, 0-6”, 0-12” wc
		02	±50, ±100, ±200, ±400, 100, 200, 400, 800 Pa
		03	±125, ±250, ±500, ±1000, 250, 500, 1000, 2000 Pa
LP1	B	00	Typical Model Number
Example:	LCD	Jumper Selectable Range:	← ±0.25” to 0-4” wc

DIMENSIONS:



OPTIONS:



**Pitot Tube
HFO Series**

The HFO series pitot tube is used to sense velocity pressure or static pressure when the sensing end is cut off square. Available in 6" length.



**Differential Pressure Probe
SSS Series**

The SS series DP probe is used for sensing velocity pressure in the duct. Available in 4", 6", 8" & 10" lengths.



150 English Drive,
Moncton, NB, Canada E1E 4G7
e-mail: mail@greystoneenergy.com
Tel.: (506) 853-3057 Fax: (506) 853-6014
web site: www.greystoneenergy.com

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.

