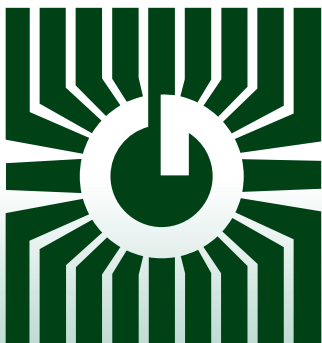


GREYSTONE

ACCURACY BY DESIGN



ULTRA LOW PRESSURE TRANSDUCERS ULP Series



Precision low pressure control/sensing

FEATURES:

- 3 jumper selectable current or voltage outputs
- 24 Vac/dc power supply standard
- 2 jumper selectable pressure ranges per model
- Functional weather resistant ABS Enclosure
- Optional LCD display available
- Optional relay output

*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
- Static Building Pressure
- Room Pressure Monitoring

SPECIFICATIONS: ULP Series

Pressure Ranges	See ordering information
Calibration Accuracy	± 1% F.S.O.
Measurement Types	Differential (two ports)
Response Time	0.5 ms
Thermal Effects	<±3% over compensated range
Compensated Range	10 - 50°C (32 - 122°F)
Over Pressure	100" W.C. (24.9 kPa)
Operating Conditions	0 - 70°C (32 - 158°F), 10 - 90% RH non-condensing
Media Compatibility	Low Port: dry gasses only, media must be compatible with epoxy adhesive High Port: wetted materials compatible with nylon housing, epoxy adhesive and silicon
Power Supply (at transducer)	13 - 28 Vac, 18 - 35 Vdc (non-isolated half-wave rectified)
Supply Current	<30 mA (without delay), or 50 mA (with relay option)
Input Voltage Effect	Negligible over specified operating range
Protection Circuitry	Reverse voltage protected and output limited
Output Signal	4 - 20 mA (3-wire), 0 - 5 Vdc or 0 - 10 Vdc (3-wire), jumper selectable
Current Output Drive Capability	550 ohms
Voltage Output Drive Capability	2 Kohms minimum for 0-5 Vdc signal 10 Kohms minimum for 0-10 Vdc signal
Zero Adjustment	Pushbutton auto-zero (On device or remote)
Optional Relay Output	N.O. contact, 5 Amps @ 250 Vac, 5 Amps @ 30 Vdc
Relay Trip Point	Adjustable from ZERO to SPAN via trimpot
Relay Delay	5 seconds on / 5 seconds off
Wiring Connections	Screw terminal block (14 to 22 AWG)
Pressure Connections	Barbed ports for 4.3 mm (0.170") ID flexible tubing
Conduit Connections	Access hole for 1/2" NPT conduit or cable gland
Optional LCD	3 1/2 digit, 10 mm (0.4") digit height
Enclosure	High Impact Black ABS, plenum rated with optional gasket 116mm W X 84 mm H X 53 mm D (4.55" X 3.3" X 2.1")

DESCRIPTION:

The ULP Ultra Low Pressure Transducer is used to measure differential pressure in the ranges of 0.125" W.C. to 1" W.C. (30 to 250Pa). It combines precision high sensitivity silicon sensing capabilities and the latest ASIC technology with Dynamic Self Compensation to substantially reduce offset errors due to changes in temperature, stability to warmup, long term instability and position sensitivity. It is ideal for monitoring pressure for air and other clean inert gas and is limited only to those media which will not attack silicon, nylon and epoxy adhesive.

The ULP features a field selectable uni- or bi-directional pressure ranges and output signal types for the most flexible applications. An optional on-board relay output, which is field adjustable, allows for an alarm function. Available options include an LCD and static pressure probes.

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

The ULP Pressure Transducer 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 opening for a 1/2" conduit 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 a safety or emergency stop device or in any other application where failure of the product could result in personal injury. Take electrostatic discharge precautions during installation and do not exceed the device ratings.

PRODUCT ORDERING INFORMATION:

MODEL	Product Description
ULP	Jumper Selectable Ultra Low Pressure Transducer

CODE	Options
A	Standard
B	LCD Display

CODE	Pressure Ranges
01	0-1" W.C., ± 1" W.C.
02	0-0.5" W.C., ± 0.5" W.C.
03	0-0.25" W.C., ± 0.25" W.C.
04	0-0.125" W.C., ± 0.125" W.C.
05	0-250 Pa, ± 250 Pa
06	0-125 Pa, ± 125 Pa
07	0-60 Pa, ± 60 Pa
08	0-30 Pa, ± 30 Pa

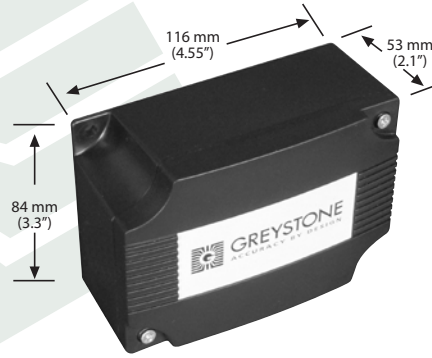
CODE	Alarm Output
A	Alarm relay, N.O. 5 Amp

ULP	B	01	A	← Typical Model Number
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Example:	LCD, 0-1" or ±1" W.C., Alarm Relay
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Greystone Energy Systems Inc. reserves the right to make design modifications without prior notice.

DIMENSIONS:



ABS enclosure dimensions

ACCESSORIES:



**RPV
Stainless Steel Pick-up Port**

The RPV is a stainless steel wall plate that incorporates a filtered port with a 1/4" barb connection for pneumatic tubing. It can be mounted on a standard junction box and used in conjunction with a low pressure transducer to monitor room pressure.

**OPV
Outside Pick-up Port**

The OPV, is a weatherproof ABS enclosure with wind shield that incorporates an filtered port with 1/4" barb fitting for connection of pneumatic tubing. It can be mounted on the side of a building and used in conjunction with a low pressure transducer to monitor building pressure.



**EPV
Executive ABS Pick-up Port**

The EPV is a low profile, decorative ABS enclosure that incorporates a port with a 1/4" barb connection for pneumatic tubing. It can be mounted on a standard junction box and used in conjunction with a low pressure transducer to monitor room pressure.



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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.

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