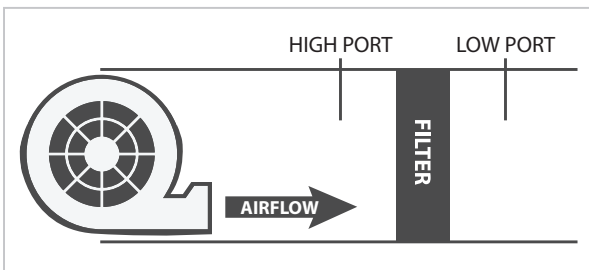


## Why is Air Pressure Monitoring Essential?

Air Pressure monitoring is like checking your blood pressure, while the pressure reading is not the problem, a reading outside a specified range alerts the facility management team, a building's doctor team, that there is an issue within the HVAC system. The installation of your pressure sensing unit, such as Greystone's LP3, ULP or GFS Series, will alert facility staff that there is an issue.

### APPLICATION

One key application for pressure sensing devices is to monitor the efficiency of a facility's air filtration system. Some facilities have set a specified schedule for changing filters depending on the manufacturers requirements, while this often ensures that a filter never clogs up, businesses who do this may be wasting money by changing filters more often than they need to. The reverse of this, on top of higher operating costs due to dirty filters, businesses that wait for external clues, such as occupants complaining about how an HVAC system is working, are potentially exposing themselves to significant risks, including compromised air quality, a major issue for any space, but especially for small enclosed spaces and critical environments.



Air Pressure transmitters and switches, such as the LP3, ULP and GFS Series, can be installed to measure differential pressure across an air filter to alert facility management of when the filter needs to be changed. By installing the high port of the LP3 on the fan side of the filter in the duct work, and the low port downstream of the filter, the differential pressure reading will let facility staff know whether to change the filter. Too large of a change in the pressure reading between the high and low ports, you know its time to change your filter.

### SOLUTIONS

For the most economical solution, the GFS Series (pressure switch) is ideal. When the differential pressure reaches the adjustable set point, the normally open contact will close and a digital output signal will alert your controller. For installations that require an analog output or more accurate readings, the LP3 pressure transducer is a great solution that includes an optional LCD display. For critical environments that require high accuracy readings, Greystone's ULP Series is the perfect solution. The ULP offers both analog or BACnet output, optional LCD display and alarm relay output.



## DIFFERENTIAL PRESSURE MONITORING

Greystone offers a full line of air pressure sensing devices, including:

- Ultra Low Pressure Monitoring
- Low Pressure Monitoring
- Air Pressure Switches



### GFS

The GFS series air differential pressure switch is a general purpose airflow proving switch designed for HVAC and Energy Management applications. It may be used to sense positive, negative, or differential air pressure. The housing contains a diaphragm, a calibration knob and a snap-acting SPDT switch.

[BROCHURE](#)



### LP3

The LP3 Low Pressure Transmitter can be used to measure positive, negative or differential pressure in the ranges of 1.00" W.C. to 20" W.C. or 250 to 2000 Pa. 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.

[BROCHURE](#)



### ULP

The ULP Ultra Low Pressure Transmitter is used to measure differential pressure in the ranges of 0.125" W.C. to 1" W.C. (30 to 250 Pa). 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.

[BROCHURE](#)

For full specifications and ordering information for the LP3, ULP and GFS Series, contact your local sales manager or visit our website at <http://greystoneenergy.com/>



**GREYSTONE**  
ENERGY SYSTEMS INC

Phone : +1-506-853-3057  
North America: +1-800-561-5611  
[www.greystoneenergy.com](http://www.greystoneenergy.com)

