

# 75F® Differential Pressure



- Fast and seamless installation
- Measures pressure drop at the zone level
- Alerts when AHU filters need to be changed
- VAV flow measurement based on ASHRAE GPC 36

# 75F® Differential Pressure Sensor™

75F's suite of sensor offerings gives building owners the power of IoT-connected devices for optimal efficiency and comfort in spaces where it matters most. Measure airflow rates in VAV boxes for advanced DCV sequences, learn when AHU filters need to be changed, and more with the 75F® Differential Pressure Sensor™.



## OVERVIEW

**W** The 75F® Differential Pressure Sensor™ is a high-precision pressure sensor that enables energy-saving functions like advanced DCV sequences and VAV flow measurement based on ASHRAE GPC 36, all right out of the box.

Our rugged sensor connects to the 75F® Smart Node™ sensor bus seamlessly so you can get started right away.

## KEY FEATURES

- Alerts when AHU filters need to be changed
- Measures airflow rates in VAV boxes for fast and easy compliance with advanced DCV sequences
- Significantly decreases the time of install
- Compact, rugged design means the sensor can be mounted on VAV boxes, hard supporters or rafters



## ADDITIONAL FEATURES

- Can be daisy-chained with other sensors on the 1-wire bus to provide extensible sensor network
- Proprietary 1-wire protocol to communicate with a master device such as the 75F® Smart Node™
- Large sensor cutouts make installing easy, even when wearing gloves

## APPLICATIONS

- 75F® Dynamic Airflow Balancing™
- 75F® Outside Air Optimization™
- 75F® Smart VAV with Reheat™
- 75F® Hydronic Controls™
- 75F® Single Stage Equipment Controls™

## INCLUDE

**(1)** Differential Pressure Sensor

# 75F® Differential Pressure Sensor™

## MECHANICA

**Dimensions** Diameter 60 mm, height 31mm, mounting side length 72 mm

**Mounting** On the VAV Box

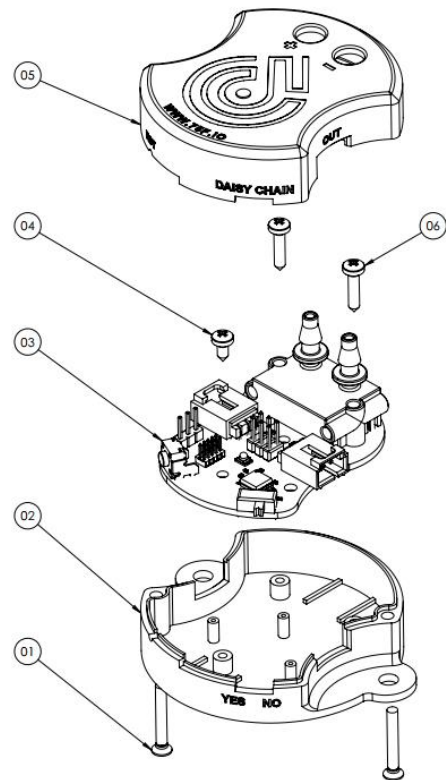
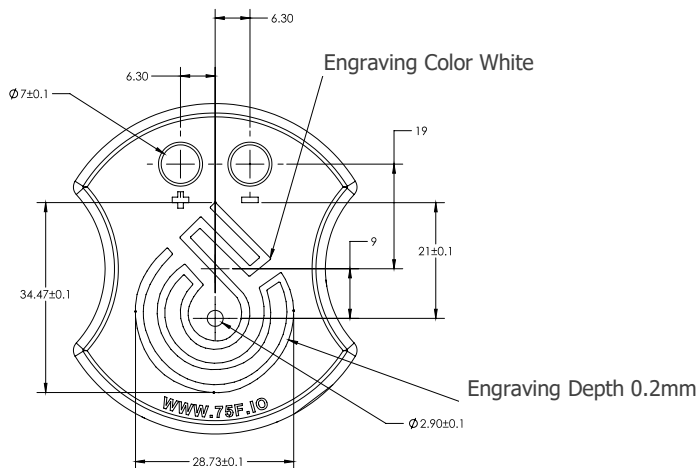
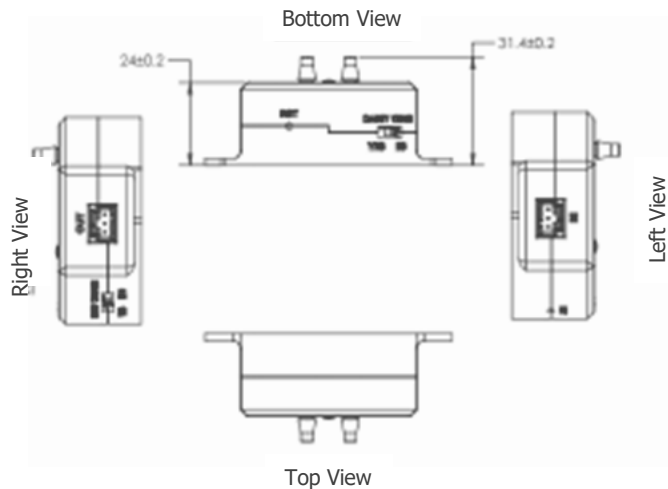
**Operating Temp-** 0 to 50°C

**Storage Temp** -10°C to 70 °C ,  
Relative Humidity: - 0% to 95 %

**Accuracy** RH non-condensing  
- 3% of measured value  
Zero point (- 0.1 Pa)

## ELECTRICAL

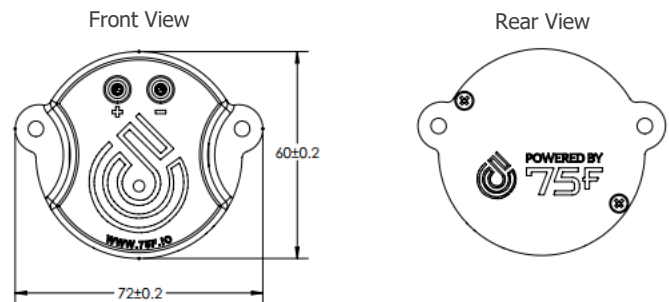
**Power** Supply voltage — 3-wire interface;  
powered at 3.3V with maximum  
current limit of 10mA



## COMMUNICATIONS

**Wired**

75F 1-Wire Protocol



Insert m2x0.4 Heat Set Inserts for Plastic, 2NOS  
McMaster-94459A120

