

# OneVue Sense™ Differential Pressure Sensor



Maintaining strict air pressure differentials in specific healthcare environments is essential to the safety of your patients. While positive pressure is required in operating rooms and protective environment rooms to keep contaminants out; negative pressure is needed in isolation rooms and construction/renovation zones to prevent contaminants from spreading throughout the facility. With OneVue Sense Differential Pressure Sensors, you'll be able to continuously track and document the pressure in these rooms to ensure the safety of patients and keep your facility in compliance. Highly sensitive sensors capture and log pressure readings, then access our web-based OneVue® Software through the existing facility network to store and analyze the data.

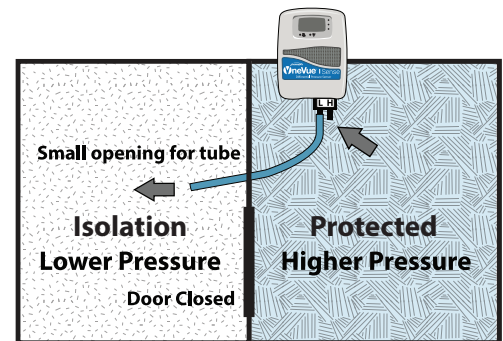
## A New Level of Assurance

The OneVue Sense Differential Pressure solution employs highly sensitive sensors with the ability to detect ultra-low changes in air pressure that could affect patient safety. The sensors require only a minuscule amount of air flow through the unit to detect pressure changes. If pressure does go out of range, visual, audible, email, text, and phone alerts can be issued to allow appropriate measures to protect the safety of patients, staff, and visitors. A convenient Door Open/Closed switch allows you to easily suspend alerts when the door is propped open during patient transfer, room cleaning, or other tasks.



OneVue Sense  
Differential Pressure Sensor

SENSORS	
PART NO.	DESCRIPTION
421-000003	Differential Pressure Sensor, 120V, Wi-Fi Model, includes AC Power Adapter, Backup Batteries, Silicone Tubing and Wall Plate Assembly Kit. Requires OneVue Service and Support plan.
421-000004	Differential Pressure Sensor, PoE, includes Cat5 Cable, Backup Batteries, Silicone Tubing and Wall Plate Assembly Kit. Requires OneVue Service and Support plan.

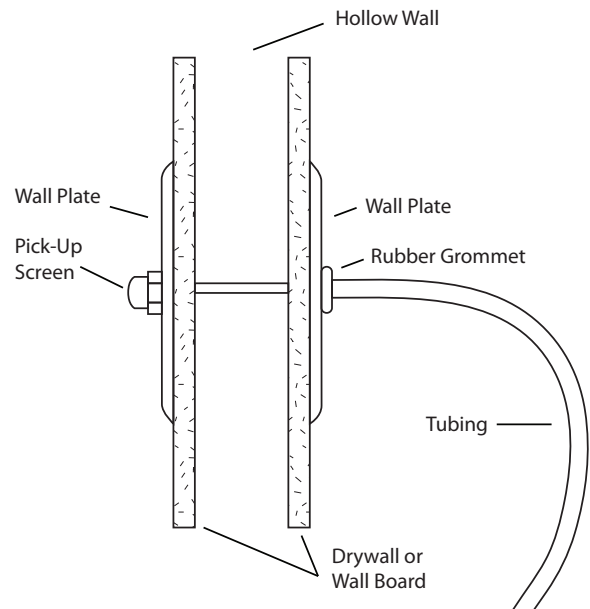


ACCESSORIES	
PART NO.	DESCRIPTION
400-000082	Sensor Power Supply. 5 VDC (1 A max) power supply.
400-000080	Sensor Battery Pack. 3.0v Energizer L91-FR6 3.0V Battery Pack (2 AA batteries in single pack).
498-000004	Replacement Wall Plate Assembly. Differential Pressure Wall plate assembly for through-wall differential pressure installations; for use with 421-000003 or SNSDIF differential pressure sensors.
400-000078	Power Cord Extension (2 meter), sensors Extension cable for Sense power supply, 2 meter (~ 6 feet ) length. USB mini to USB mini.
498-000001	Sense Replacement Contact Closure Switch with 50' cable



## FEATURES

- Provides readings in inches of water (inches H2O) or Pascals (Pa)
- LCD screen with intuitive graphic display shows pressure differential to  $\pm .001$  inches H2O ( $\pm 2.0$  Pa).
- Full measurement range is  $\pm .001$  to 0.500 inches H2O ( $\pm 2.0$  to 125 Pa)
- Customizable user span settings help minimize "nuisance" alarms by initiating alerts only when pressure thresholds have been breached for a predetermined length of time.
- Features an 802.11 b/g Wi-Fi radio or Ethernet port (421-000004 Model) for easy network communication.
- NIST-Traceable sensing element meets compliance standards.
- Includes one 6' (1.82m) lengths of silicone tubing with 1/4" (6.35mm) O.D./1/8" (3.17mm) I.D.
- Standard configuration includes 2 AA lithium battery pack (battery only operation is not recommended when used with the door switch).
- Power-over-Ethernet (PoE) model 421-000004 is also available.
- AC power supply included with 421-000003 Wi-Fi model; optional purchase for use with 421-000004 PoE model.



## SPECIFICATIONS

- **Measurement Type:** Differential Pressure (two port)
- **User-Defined Transmission Rate:** 15 minutes to 12 hours
- **Reading Accuracy:**  $\pm 0.2$  Pa + 3% of Reading
- **Accuracy:** LCD Resolution:  $\pm 0.001$  inches H2O ( $\pm 0.2$  Pa) Max Reading:  $\pm 0.500$  inches H2O ( $\pm 125$  Pa)
- **Calibration:** Factory calibrated with digital temperature compensation over the  $\pm 0.5$  inches H2O range ( $\pm 125$  Pa range)

## POWER

- **421-000003 (Wi-Fi Model):**
  - Includes: 400-000080 Battery Pack or 2 AA Energizer® Ultimate Lithium Batteries
  - Includes: 400-000082 AC Power Supply, 300mA @ 5 VDC with 3 ft. (.91m) standard power cable
- Optional: 6 ft. (1.82m) extended cable available 400-000078
- **421-000004 (PoE Model):**
  - Compliant with IEEE 802.3 af standard
  - Includes: 400-000080 Battery Pack or 2 AA Energizer® Ultimate
- Optional: 6 ft. (1.82m) extended cable available
- Lithium Batteries, 4' POE cable 100-000385
- Optional: 400-000082 AC Power Supply, 300mA @ 5 VDC with 3 ft. (.91m) standard power cable
- Optional: 6 ft. (1.82m) extended cable available

## WIRELESS & NETWORK COMMUNICATION

- **Encryption Protocols:** WEP, WPA, WPA2
- **Authentication Protocols:** LEAP, EAP-FAST, PEAP, EAP-TLS
- **Data Packet Size:** typically less than 5 kilobytes (kB)

## ENCLOSURE

- Acetal or ABS plastic
- **Dimension:** 4.7" H x 3.7" W x 1.3" D (11.93cm x 9.39cm x 3.30cm)
- Port Cover adds 1.6" (4cm) to height of unit

## OPERATION

- **Alerts:** audio, visual LED, LCD display
- **Stored Reading Capacity:** 4096 readings
- **Configuration:** OneVue, OWDC app, & Primex Device Configuration software
- **Audio Alert Reset Period:** user-defined (Next Alarm, 15min, 30min, 1hr, 2hr, 3hr, 4hr)

## ENVIRONMENT

- **Operating Temperature:** 32°F to 113°F (0°C to 45°C)

To Learn More:

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