# No construction.
# No cleaning.
# No hassle.

## setraFLEX™
### Hot-Wire Replacement Kit

**Typical hot-wire anemometer sensing element:**

## Avoid dealing with constant contamination
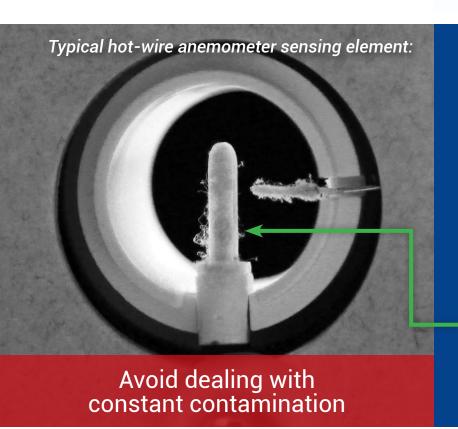
- **Complete room pressure monitor kit**

- **Replaces existing installations of hot-wire anemometer sensors with safe dead-ended capacitive sensors**

- **Attaches to existing sensor housing and wall box**

- **No construction necessary; installs in minutes**

- **Dirty sensors means unreliable room pressure and wasted energy**

- **No need for cleaning, ever**

# SetraFLEX™
## Hot-wire Replacement Kit

## Features

- **Complete room pressure monitor kit to replace existing installations of hot-wire anemometer sensors**
- **Attaches to existing sensor housing and wall box**
- **No construction necessary; installs in minutes**
- Includes AHR Innovation Award-winning Setra FLEX™
- Includes the no-maintenance Setra sensor
- Specifications match or exceed existing legacy monitors
- Required tools: a ladder & screw driver
- No cutting into walls and no pulling wires

## Included in the kit

- Setra **FLEX-RM** or **FLEX-RC** with 7" display
- A **sensor housing kit** that attaches to the existing through-the-wall sensor assembly and includes Setra's proprietary dead-ended variable capacitance pressure sensing element
- A **surface-mount adapter housing** for Setra FLEX that can fit over existing wall boxes

The Setra FLEX™ Hot-wire Replacement Kit includes everything required for upgrading obsolete, high maintenance room pressure monitor technology.
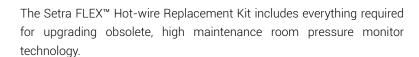
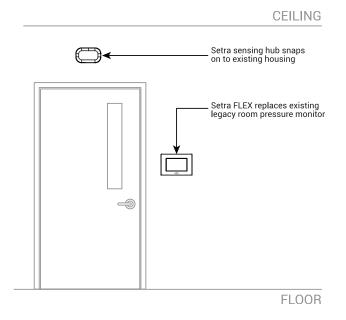## No construction required for install

The complete kit can be installed in minutes and requires no wiring or wall modifications; all you need is just a ladder and screw driver. First, remove the existing sensor covers and replace them with Setra's sensor. Next, connect using existing wires. Then, remove the legacy monitor and replace with Setra FLEX. Connect using existing wires and power, configure FLEX and you're done!

## Low-maintenance & contaminant-free sensing technology

Setra's pressure transducers are dead-ended sensors, which means there is no air flowing through pressure tubing. Our proprietary variable capacitance transducer requires no maintenance or cleaning. Re-zero can be done on the Setra FLEX touch screen and sensor calibration can be performed if the application requires it.

The Setra FLEX unit includes a brilliant 7" touch screen display, configurable visual and audible alarming, isolation and non-isolation modes, alarm delay, key switch input, and control operation for VAV dampers. Multiple units can be easily configured using Setra's USB cloning feature.

More information about Setra FLEX™ Environmental Monitor can be found at www.setra.com/setra-flex.

CEILING



Setra sensing hub snaps on to existing housing

Setra FLEX replaces existing legacy room pressure monitor

FLOOR

**800.257.3872  |  www.setra.com**

# Specifications

## Performance

| | |
|---|---|
| Transducer range | ±0.20 "WC (50 Pa) |
| Accuracy RSS | ±0.25% FS |
| Non-linearity (BFSL) | ±0.22% FS |
| Hysteresis | ±0.10% |
| Non-repeatability | ±0.05% |
| Zero/span shift%FS | ±0.033% |
| Long-term stability | ±0.5% FS per year |
| Overpressure | ±1 PSI (15" WC for <0.10" WC FS) |
| Pressure media | Air or non-conductive, non-explosive gases |
| Pressure fittings | 3/16" barbed fittings |
| Altitude | 6,562 ft. (2000 m) maximum |
| Position | Housing to be 90° in reference to level surface, ±5° |

## Environmental data

| | |
|---|---|
| Operating temperature | -32° to 120°F (0° to 50°C) |
| Storage temperature | -40° to 185°F (-40° to +85°C) |
| Operating humidity | 5 to 95% RH (non-condensing) |
| Ingress protection (IP) rating | IP54 |

## Chemical resistance

Exposed surfaces are chemically resistant to vaporized hydrogen peroxide (VHP), formaldehyde, chlorine dioxide (clidox), perchloric acid, sodium hypochlorite 3-6% (bleach), quaternary ammonium 7% in 1:128 tap water (ammonia).

Specifications subject to change without notice.

## Physical description

| | |
|---|---|
| Dimensions, sensing hub | 5.6" W x 3.34"H x1.97"D (142mm x 85mm x 50mm) |
| Mounting, sensing hub | Snap  fit onto existing housing sensor. No wiring required. |
| Dimensions, FLEX wall adapter | 9.45"W x 6.5"H x 1.77"D (240mm x 165mm x 45mm) |
| Mounting, FLEX wall adapter | Surface-mount onto existing wall box. No wall repair required. |
| Case | Fire-retardant plastic UL94 V-0 |
| Weight, sensing hub | 6.1 oz. |
| Weight, FLEX wall adapter | 6.5 oz. |

## Electrical

| | |
|---|---|
| Power | 4-20 mA loop power, sourced from Setra FLEX unit. No separate power required. |
| Wire | Utilizes existing sensor wire already in wall. No additional wiring required. |
| Connections | Fixed terminal block |

## Regulatory compliance
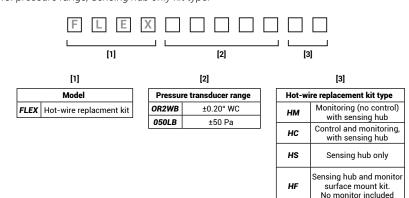
CSA,CE, RoHS, WEEE, BTL

## Setra FLEX™ specifications

Specifications for the Setra FLEX™ environmental monitor can be found in Setra document SSP-FLEX. See www.setra.com/setra-flex for more information.
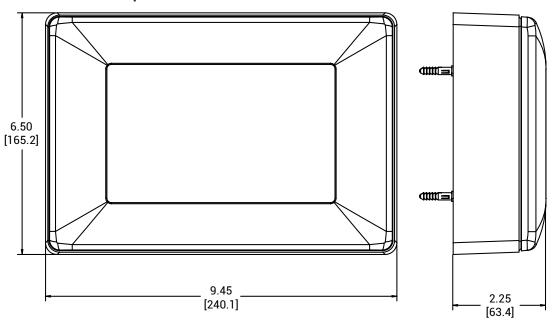
# Ordering information

Example part number: FLEX0R2WBHS:
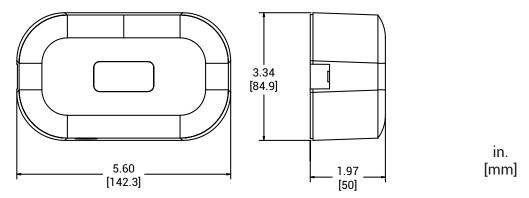*Hot-Wire Replacement Kit, ±0.20" W.C. pressure range, Sensing hub only kit type.*

| F | L | E | X | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|

[1]   [2]   [3]

**[1]**

| Model | |
|---|---|
| **FLEX** | Hot-wire replacment kit |

**[2]**

| Pressure transducer range | |
|---|---|
| **OR2WB** | ±0.20" WC |
| **050LB** | ±50 Pa |

**[3]**

| Hot-wire replacement kit type | |
|---|---|
| **HM** | Monitoring (no control) with sensing hub |
| **HC** | Control and monitoring, with sensing hub |
| **HS** | Sensing hub only |
| **HF** | Sensing hub and monitor surface mount kit. No monitor included |

# Dimensions

**Setra FLEX and wall adapter:**

6.50
[165.2]

9.45
[240.1]

2.25
[63.4]

**Sensing hub:**

3.34
[84.9]

5.60
[142.3]

1.97
[50]

in.
[mm]

**Setra Systems, Inc.**

159 Swanson Road
Boxborough, MA 01719

800.257.3872
www.setra.com