



setra SSP-FLTR Filter Status Monitor Owner's Manual

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Setra SSP-FLTR Filter Status Monitor



Specifications

- **Physical Description:** Dimensions and Mounting Position as per the table on the next page
- **Case:** Fire-retardant plastic UL94 V-0
- **Weight:** As per the table on the next page
- **Display:** Color: RGB, 65K; Resolution: 128×160, Backlight: LED
- **Alarm Indication:** Included
- **Performance:**
 - Accuracy: 1
 - Non-linearity (BFSL)
 - Hysteresis
 - Non-repeatability
 - Span Tolerance
 - Thermal Effects

Product Usage Instructions

Installation

Install the Setra Filter Alert in new or existing locations according to the provided guidelines.

Filter Status Monitoring

The Setra Filter Alert offers options for setting filter status limits, indicating when a filter is functioning optimally, nearing replacement, or requiring immediate replacement.

Features

- **Replacement Kit:** Included
- **Status Levels:** Good, Warning Replace Soon (>1.50WC), Replace (>2.00WC)
- **Built-in Zero Adjustment:** Recalibrate the zero point with the onboard shunt and on-screen instructions.
- **Ideal For:** Air handlers, purification systems, and return duct filtration health monitoring.

Filter Status Monitor

Features

- Simple pressure and status indication for all filter health needs
- Sleek and attractive single-wall plate
- Multiple warning levels
- Visual alarm via red/green light ring
- An offset light pipe that can be seen at an angle or down a hallway
- Digital display
- Selectable analog output provides pressure readings to the BMS system
- Up to 25" WC, 1% FS accuracy, optional DP gauge replacement kit

Install in new or existing locations

4 Easy Install Options:

- Single-gang electrical box
- 2" diameter hole
- Existing DP gauge locations with optional conversion plate
- Surface mount

Multi-state filter status

The Setra Filter Alert provides straightforward options for setting filter status limits, clearly showing when a filter is performing optimally, close to needing replacement, or in need of immediate replacement.



Built-in zero adjustment

Recalibrate the zero point without removing the device with the onboard shunt and on-screen instructions.



Ideal for air handlers, purification systems, and return duct filtration health monitoring

- Ensure filter efficiency

- Reduce energy usage
- Improve filter management

Specifications

Physical description

Physical description	
Dimensions	See the table on the next page
Mounting	See the table on the next page
Position	See the table on the next page
Case	Fire-retardant plastic UL94 V-0
Weight	See the table on the next page
Display	Color: RGB, 65K; Resolution: 128×160, backlight: LED
Alarm indication	Visual: illuminated LED light ring, 11 mm standoff from faceplate, viewable at a 90 ° angle from the side

Performance	
Accuracy¹	±1.0% FS (standard); ±0.5% FS (optional)
Non-linearity (BFSL)	±0.98% FS (standard); ±0.44% FS (optional)
Hysteresis	±0.10% FS
Non-repeatability	0.13% FS
Span Tolerance	±1% FS
Thermal effects²	
Zero shift %FS/°F (°C)	±0.033 (±0.06)
Span shift %FS/°F (°C)	±0.033 (±0.06)
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" tubing fitting
Environmental data	

Operating temperature 32° to 120°F (0° to 50°C)

Storage temperature -20° to 160°F (-30° to 70°C)

Operating humidity 5 to 95% RH (non-condensing)

Ingress protection (IP) rating IP54

1. RSS of non-linearity, non-repeatability, and hysteresis
2. Units calibrated at nominal 70°F maximum thermal error computed from this datum
3. Zero tolerance negated by zero push button
4. Units calibrated in normal operating condition utilizing Light Ring mode 2

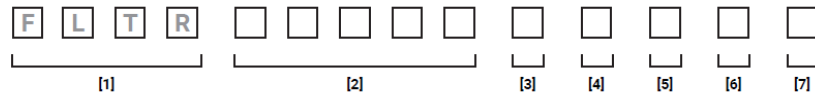
Display	
Light ring	Green, red, yellow, or off
Numeric value	4 digits
Features	

Re-zero	Single press-and-hold to re-zero sensor
Alarm thresholds	Set numeric threshold in "WC or Pa
Display on/off	Set display to always-on, or momentary press to show pressure value
Significant digits	1, 2, or 3 after decimal point
Light ring	Set LED ring to: 1) Off and steady red if in alarm 2) Steady green, steady red if in alarm 3) Steady green, steady yellow indicating warning, steady red if in alarm,

Units	"WC or Pa
Electrical	
Power	24 VAC ($\pm 10\%$) 24 VDC (18-32) 50-60 Hz
Power draw	2W max, 1W typical
Analog output³	Set for 0-5V, 0-10V, or 4-20mA signal
Wire	Stranded unshielded twisted-pair, 18-24 AWG
Terminals	Removable screw terminal
Regulatory compliance	CE, RoHS

Ordering information

Example part number: FLTR-R25WB-D-W-L-A-N



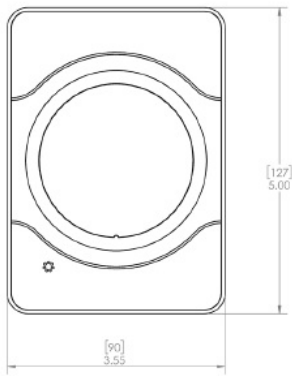
[1]		[2]		[3]		[4]		[5]		[6]		[7]	
Model		Transducer Range		Accuracy		Color		Orientation		Communication		Accessories	
FLTR	Setra Filter Alert™	001WD	0 to 1" WC	D	±0.5% FS	W	White	P	Portrait	A	Analog	N	None
		2R5WD	0 to 2.5" WC	G	±1% FS	B	Black	L	Landscape			F	Flush Mount DP Gauge Kit
		003WD	0 to 3" WC									S	Surface Mount Kit
		005WD	0 to 5" WC										
		010WD	0 to 10" WC										
		025WD	0 to 25" WC										

Configurations

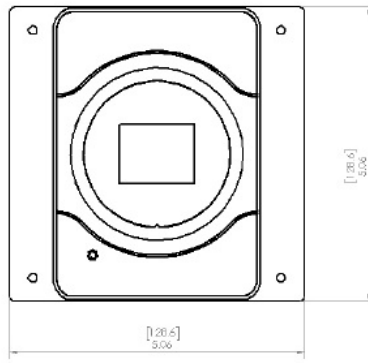
	Monitor Only	Flush Mount DP Gauge Replacement Kit	Surface Mount Kit
	Simple permanent monitoring of filter health	Simple permanent monitoring of filter health mounted in the same location as an existing DP gauge	Simple permanent monitoring of filter health is mounted where surface mount applications are desired (retrofit or new)
Use case			
Set up	<ul style="list-style-type: none"> Flush mount install with 2" holesaw or in standard single gang box Install 24 VAC/VDC wiring 	<ul style="list-style-type: none"> Flush mount in existing gauge location using provided retrofit plate Apply 24 VAC/VDC 	<ul style="list-style-type: none"> Install using the provided surface mount box on the exterior of the equipment or the wall Apply 24 VAC/VDC
Kit includes	<p>Setra Filter Alert™ Base Unit –</p> <p>Specified by the customer</p> <ul style="list-style-type: none"> Mounting hardware Quick-disconnect electrical connector Tubing and barb connections 	<p>Setra Filter Alert™ Base Unit –</p> <p>Specified by the customer</p> <ul style="list-style-type: none"> Retrofit plate Mounting hardware (2) 8" rubber tubes (2) Barbed tubing unions Quick-disconnect electrical connector 	<p>Setra Filter Alert™ Base Unit –</p> <p>Specified by the customer</p> <ul style="list-style-type: none"> Surface mount box Mounting hardware (2) 8" rubber tubes (2) Elbow connectors (4) Barbed tubing unions Quick-disconnect electrical connector
	<ul style="list-style-type: none"> Single-gang US electrical box, China 86 box, European back box, or equivalent interior dimensions 	<ul style="list-style-type: none"> In existing flush mount DP gauge locations 	
Mounting	<ul style="list-style-type: none"> Direct to the wall or the equipment enclosure 		<ul style="list-style-type: none"> On the exterior of equipment or all types of wall surfaces
Mounting position / orientation	Can be mounted vertically or horizontally, re-zeroed after installation	Can be mounted vertically or horizontally, and re-zeroed after installation	Can be mounted vertically or horizontally, re-zeroed after installation
Dimensions	3.42" W x 4.88" H x 1.83" D (67 mm x 124 mm x 46.5 mm)	4.00" W x 5.47" H x 2.83" D (101.5 mm x 139 mm x 71.9 mm)	5.06" W x 5.06" H x 1.83" D (128.5 mm x 128.5 mm x 46.5 mm)
Weight	8 oz (0.5 lbs)	12 oz (0.75 lbs)	14 oz (0.9 lbs)

Dimensions

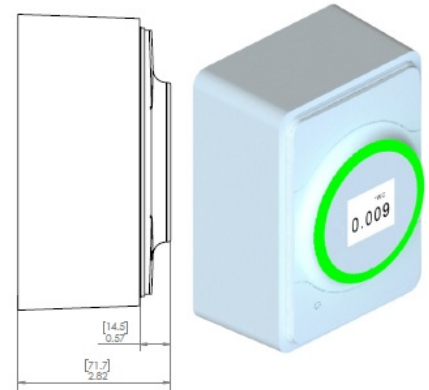
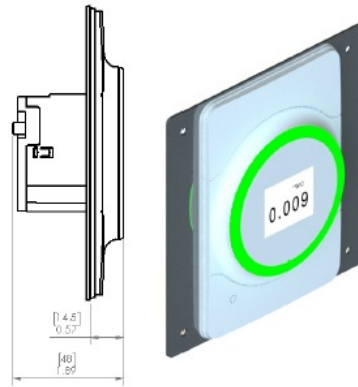
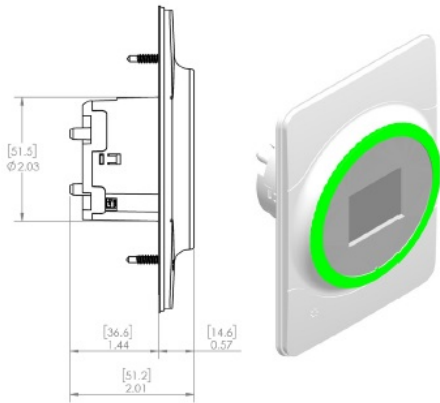
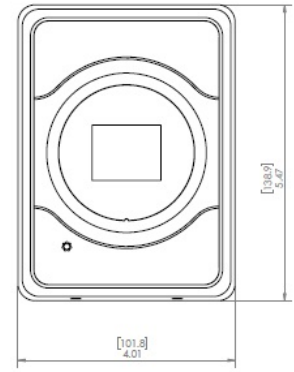
Setra Filter Alert Base Unit



Setra Filter Alert Flush Mount Kit

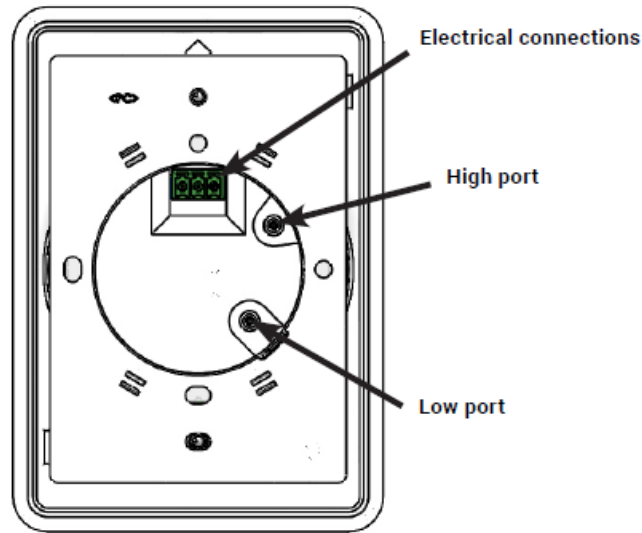


Setra Filter Alert Surface Mount Kit



Wiring tubing connections

Setra Filter Alert Base Unit



REAR VIEW

Kit contents: What's in the Box

Monitor Only	Flush Mount DP Gauge Retrofit Kit	Surface Mount Kit
<ul style="list-style-type: none"> • Setra Filter Alert base unit – as specified by the customer • Mounting hardware • Electrical connector • Tubing and barb connections 	<ul style="list-style-type: none"> • Setra Filter Alert base unit – as specified by the customer • Mounting hardware • Electrical connector • Tubing and barb connections • Stainless steel mounting plate 	<ul style="list-style-type: none"> • Setra Filter Alert base unit – as specified by the customer • Mounting hardware • Electrical connector • Tubing and barb connections • Surface mount box



Contact Information

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Frequently Asked Questions

• Q: How often should I recalibrate the zero point?

A: It is recommended to recalibrate the zero point periodically to ensure accurate readings. Follow the on-screen instructions for recalibration.

• Q: Can the Setra Filter Alert be used in outdoor environments?

A: The Setra Filter Alert is designed for indoor use and should not be exposed to outdoor elements to maintain optimal performance.

Documents / Resources

	<p>setra SSP-FLTR Filter Status Monitor [pdf] Owner's Manual SSP-FLTR Filter Status Monitor, SSP-FLTR, Filter Status Monitor, Status Monitor, Monitor</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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