



setra FILTER ALERT

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
- Offset light pipe that can be seen at an angle or down a hallway
- Digital display
- Selectable analog output provides pressure readings to 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

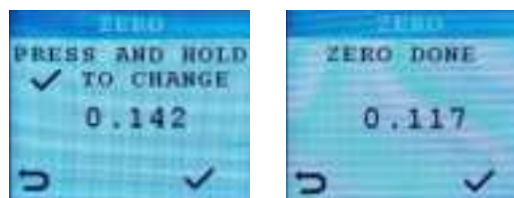
Multi-state filter status

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 on-board 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

Dimensions	See table on next page
Mounting	See table on next page
Position	See table on next page
Case	Fire-retardant plastic UL94 V-0
Weight	See table on next page
Display	Color: RGB, 65K; Resolution: 128x160, backlight: LED
Alarm indication	Visual: illuminated LED light ring, 11mm standoff from faceplate, viewable at 90° angle from side

Performance

Accuracy ¹	±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 effects ²	
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,
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Units	"WC or Pa
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Electrical

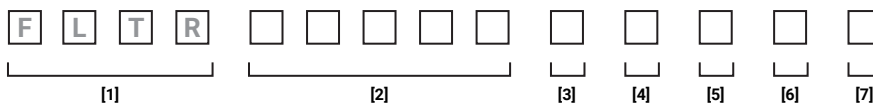
Power	24 VAC (±10%) 24 VDC (18-32) 50-60 Hz
Power draw	2W max, 1W typical
Analog output ³	Set for 0-5V, 0-10V, or 4-20mA signal
Wire	Stranded unshielded twisted-pair, 18-24 AWG
Terminals	Removable screw terminal

Regulatory compliance

CE, RoHS

Ordering information

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



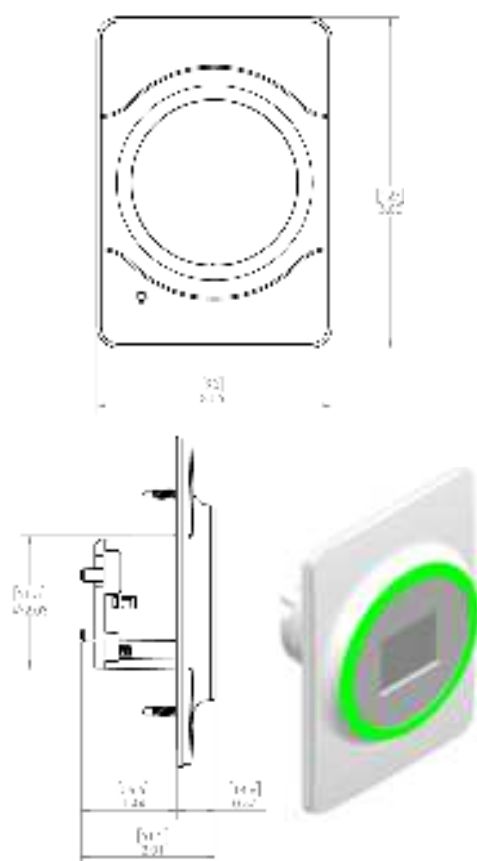
[1]	[2]	[3]	[4]	[5]	[6]	[7]
Model	Transducer Range	Accuracy	Color	Orientation	Communication	Accessories
FLTR Setra Filter Alert™	001WD 0 to 1" WC	D ±0.5% FS	W White	P Portrait	A Analog	N None
	2R5WD 0 to 2.5" WC	G ±1% FS	B Black	L Landscape		F Flush Mount DP Gauge Kit
	003WD 0 to 3" WC					S Surface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

Configurations

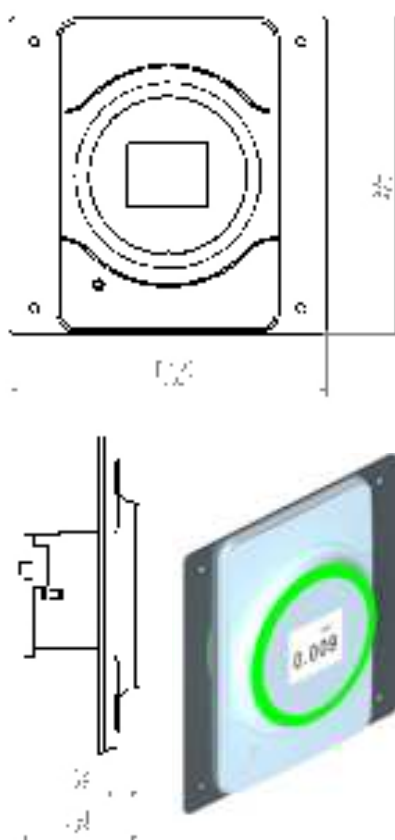
	Monitor Only	Flush Mount DP Gauge Replacement Kit	Surface Mount Kit
Use case	Simple permanent monitoring of filter health	Simple permanent monitoring of filter health mounted in the same location as an existing DP gauge	Simple permanent monitoring of filter health mounted where surface mount applications are desired (retrofit or new)
Set up	- Flush mount install with 2" holesaw or in standard single gang box - Install 24 VAC/VDC wiring	- Flush mount in existing gauge location using provided retrofit plate - Apply 24 VAC/VDC	- Install using provided surface mount box on exterior of equipment or wall - Apply 24 VAC/VDC
Kit includes	Setra Filter Alert™ Base Unit - Specified by customer - Mounting hardware - Quick-disconnect electrical connector - Tubing and barb connections	Setra Filter Alert™ Base Unit - Specified by customer - Retrofit plate - Mounting hardware (2) 8" rubber tubes (2) Barbed tubing unions - Quick-disconnect electrical connector	Setra Filter Alert™ Base Unit - Specified by customer - Surface mount box - Mounting hardware (2) 8" rubber tubes (2) Elbow connectors (4) Barbed tubing unions - Quick-disconnect electrical connector
Mounting	- Single-gang US electrical box, China 86 box, European back box, or equivalent interior dimensions - Direct to wall or equipment enclosure	In existing flush mount DP gauge locations	On the exterior of equipment or all types of wall surfaces
Mounting position / orientation	Can be mounted vertical or horizontal, re-zero after installation	Can be mounted vertical or horizontal, re-zero after installation	Can be mounted vertical or horizontal, re-zero 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

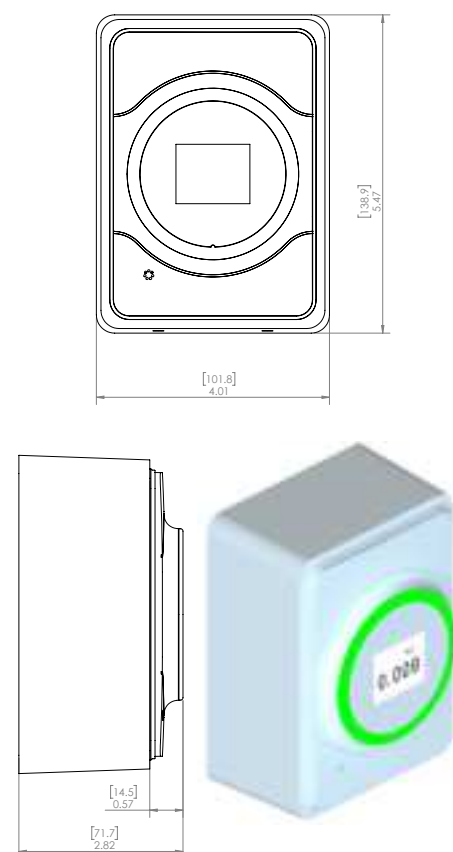
Setra Filter Alert Base Unit



Setra Filter Alert Flush Mount Kit

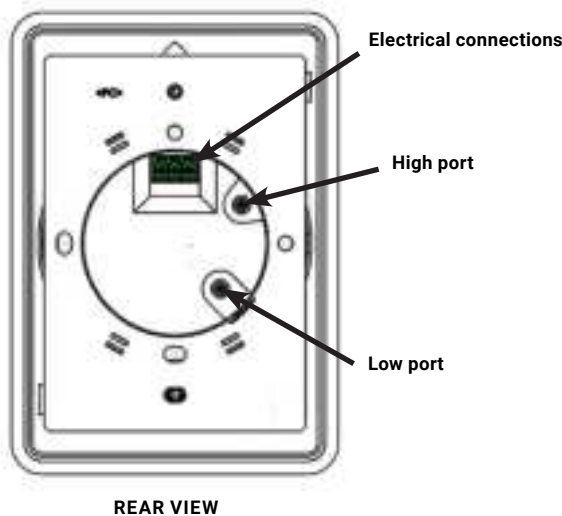


Setra Filter Alert Surface Mount Kit



Wiring tubing connections

Setra Filter Alert Base Unit

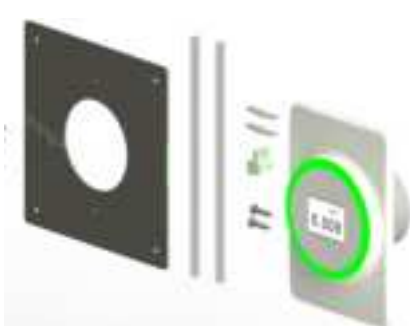


Kit contents – What’s in the Box



Monitor Only

- Setra Filter Alert base unit - as specified by customer
- Mounting hardware
- Electrical connector
- Tubing and barb connections



Flush Mount DP Gauge Retrofit Kit

- Setra Filter Alert base unit - as specified by customer
- Mounting hardware
- Electrical connector
- Tubing and barb connections
- Stainless steel mounting plate



Surface Mount Kit

- Setra Filter Alert base unit - as specified by customer
- Mounting hardware
- Electrical connector
- Tubing and barb connections
- Surface mount box