BOISWOOD
GAS AND LIQUID CONTROL TECHNOLOGIES

Pressure & Vacuum
Flow
Level & Temperature
Tube & Fittings
HVACR
Custom Services

setra lite™

Visual Pressure Indicator

Features

- Simple single-room pressure indication for all pressurized spaces
- Sleek and attractive single wall plate
- Multiple installation options
- Simple to install in minutes
- Visual alarm via red/green light ring
- Configurable audible alarm
- Offset light pipe that can be seen at an angle or down a hallway
- Digital display can be always-on or momentary
- Is easy, using just 3 buttons
- Analog configuration output provides pressure reading to BMS system
- Works with Setra FLEX to serve rooms with multiple doors

1 YEAR WARRANTY RoHS CE UK CA

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setra

Accurate measuring & display

Setra Lite provides a simple, cost-effective, and accurate way to measure and display room differential pressure for spaces that currently require manual verification. For local staff managing an area, Setra Lite has a light ring that is green or red and an optional audible alarm providing clear indication of room conditions. For facilities using Setra Lite means the frequency of preventative maintenance walk-by inspections can be reduced because Setra Lite is monitoring the space.

Setra Lite features

Setra Lite has many features found only in larger, more complex room pressure monitors, including: a bright light ring that can be seen at an angle or down a hallway, a digital display of the pressure value that is always-on or momentary, an alarm delay for door entry, and POS or NEG room mode. The Setra Lite sensor has Setra's accuracy and reliability you know you can trust.

Simple installation

Setra Lite is about the size of a standard light switch, and just as a simple to install. It fits in a single-gang US electrical box, international 86-box or international round back-box, and is powered by 24 VAC or 24 VDC. In the standard configuration, the reference side pressure pickup is integral with the Lite faceplate. In the dual-rear port configuration, a second tubing port is on the rear faceplate. An analog output provides the building management system with the pressure signal for any additional trending or alarming needed. The Setra Lite is for indoor use only.

The Setra Lite also integrates seamlessly with the Setra FLEX environmental monitor. Mount Setra Lite at additional doors that enter the space, and use an on-screen badge to display its value.

Applications

- Sterile processing & storage
- USP 797 compliance
- Endoscopy
- Bronchoscopy
- Laundry
- Protective patient rooms
- Isolation rooms (All)
- Emergency ICU tents
- Recently Reconfigured spaces
- Critical & Non-critical ASHRAE-170 spaces
- Replacement of ball/tube through the wall pressure indicators

Pressure indication

Simple green status

Red indicates alarm

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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	8 oz (0.5 lbs)
Display	Color: RGB, 65K; Resolution: 128x160, backlight: LED
Alarm indication	Visual: Red illuminated LED light ring, 11mm standoff from faceplate, viewable at 90° angle from side
Audible	2 secs on 1 sec off, audible from up to 150ft (30m)

Performance

Accuracy[1]	±0.5% FS
Non-linearity (BFSL)	±0.44% FS
Hysteresis	±0.10% FS
Non-repeatability	0.05% FS
Span Tolerance	±1% Rdg
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	Pressure port for 1/8 in X 1/4 in tubing

Environmental data

Operating temp. °F (°C)	32 to 120 (0 to 50)
Storage temp. °F (°C)	-20 to 160 (-30 to 70)
Operating humidity	5 to 95% RH (non-condensing)
Ingress protection (IP) rating	IP54

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
Door delay	Set door alarm delay for 0-999 seconds
POS or NEG indicator	Set display to show POS, NEG, or off
Display on/off	Set display to always-on, or momentary press to show pressure value
Significant digits	1, 2, or 3 after decimal point, POS or NEG
Light ring	Set LED ring to: 1). Steady green, steady red if alarm, 2). Green OFF, and steady red if alarm 3). Always off
Units	Set units on the display to show "WC or Pa
Selectable room location	Set location of the Lite on the display. Use Inside Room if Lite is in the measured space, and Outside Room if Lite is in the reference space.

Electrical

Power	24VAC, 50-60Hz, 2Wmax 24VDC (18V to 32V), 2Wmax
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 terminal block

Regulatory compliance

CE, RoHS, CSA, UKCA

[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

Ordering information

Example part number: LITE-R25WB-D-W-L-V-S-A-N

L	I	T	E	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
[1]				[2]					[3]	[4]	[5]	[6]	[7]	[8]	[9]

[1]

Model	
LITE	Setra Lite
LITD	Setra Lite, Dual Rear Ports

[2]

Transducer Range	
R25WB	±0.25" WC
0R5WB	±0.5" WC
001WB	±1" WC
2R5WD	0-2.5" WC
003WD	0-3" WC
050LB	±50 Pa
100LB	±100 Pa
250LB	±250 Pa
750LD	0-750 Pa

[3]

Accuracy	
D	±0.5% FS

[4]

Color	
W	White
B	Black

[5]

Orientation	
P	Portrait
L	Landscape

[6]

Alarm	
V	Visual only
A	Audio and visual

[7]

Mounting Location	
S	Display-selectable

[8]

Communication	
A	Analog

[9]

Accessories	
N	None
M'	Quick-mount kit
D	Dual alert
P	Portable kit
S	Surface mount kit
F	Flush mount kit

[1]Quick-Mount kit only available with portrait orientation
To order Quick-mount Kit without the base unit, use part number 229451.
To order Dual Alert Kit without the base unit, use part number 380302.
To order Portable Kit without the base unit, use part number 229452.
To order Surface Mount Kit without the base unit, use part number 380264.
To order Flush Mount Kit without the base unit, use part number 380259.
To order white replacement bezel gasket without the base unit, use part number 380203.
To order black replacement bezel gasket without the base unit, use part number 380403.
To order white replacement glow ring without the base unit, use part number LITELENS-WH.
To order black replacement glow ring without the base unit, use part number LITELENS-BL

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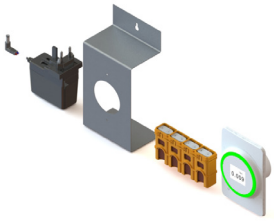
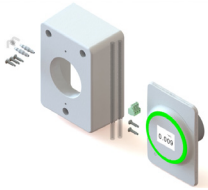
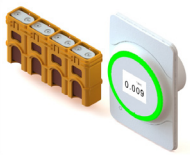
Setra Lite configurations



	Monitor Only	Dual Alert	Quick-Mount Kit
Use case	Simple permanent monitoring of airflow	Simple permanent monitoring of air flow where status is desired in both spaces	Simple temporary monitoring of airflow
Set up	• Flush mount install with 2” holesaw or in std single gang box • Install 24 VAC/VDC wiring	• Flush mount install with 2” holesaw or in (2) std single gang boxes OR • Flush mount install where previous thru wall monitor • Apply 24 VAC/VDC wiring	• Quick-mount on a simple hook or screw • Apply 24 VAC/VDC via wiring or portable power supply
Kit includes	**Setra Lite Base Unit - Specified by customer** • Pressure Pickup Port (Setra RPS) • Mounting Hardware • Elbow Connectors	**Setra Lite Base Unit - Specified by customer** • LED alarm indicator with 30” cable • Pressure Pickup Port (Matching Dual Alert Variant) • 30” of rubber connecting tubing • Mounting Hardware • Elbow Connectors	**Setra Lite Base Unit - Specified by customer** • Pressure Pickup Port (Setra RPS) • Battery Pack • AC Adapter with 6-foot cord • Mounting bracket
Mounting	• Single-gang US electrical box, China 86 box, European back box, or equivalent interior dimensions • Direct to wall	• Single-gang US electrical box, China 86 box, European back box, or equivalent interior dimensions • Direct to wall	• Temporary mounting plate with single clearance hole
Mounting position / orientation	Can be mounted vertical or horizontal, re-zero after installation	Can be mounted vertical or horizontal, re-zero after installation	Mount vertically
Dimensions	3.55" W x 5.00" H x 2.01" D (90 mm x 127 mm x 51 mm)	3.55" W x 5.00" H x 2.01" D (90 mm x 127 mm x 51 mm)	4.00" W x 7.50" H x 3.10" D (102 mm x 191 mm x 78 mm)
Weight	8 oz (0.5 lbs)	7 oz (0.4 lbs)	24 oz (1.5 lbs)
Sample P/N	LITE050LBDWPVSAN	LITE050LBDWPVSAD	LITE050LBDWPVSAM





	Dual Rear Ports	Flush Mount Kit	Surface Mount Kit	Portable Kit
Use case	Simple permanent monitoring of airflow relative to two remote locations	Simple permanent monitoring of airflow where other DP sensors were previously mounted	Simple permanent monitoring of airflow where large-hole drilling into wall is not feasible	Simple portable monitoring of airflow
Set up	• Flush mount install with 2” holesaw or in standard single gang box • Install wiring • 24VAC, 50-60Hz, 2Wmax or VDC (18V to 32V, 2Wmax)	• Flush mount install in place of previous thru wall monitor • Install wiring • 24VAC, 50-60Hz, 2Wmax or VDC (18V to 32V, 2Wmax)	• Install on wall with included hardware or concrete screws • Install wiring • 24VAC, 50-60Hz, 2Wmax or VDC (18V to 32V, 2Wmax)	• Carry to location for spot-checks of pressurized areas • Apply wiring from battery pack • VDC (18V to 32V, 2Wmax)
Kit includes	**Setra Lite Base Unit with 2 Rear Ports - Specified by customer** • 2 Pressure Pickup Ports (Setra RPS) • Mounting Hardware • Elbow connectors	**Setra Lite Base Unit - Specified by customer** • Pressure Pickup Port (Setra RPS) • Mounting Hardware • Elbow connectors	**Setra Lite Base Unit - Specified by customer** • Pressure Pickup Port (Setra RPS) • Mounting Hardware • Elbow and tubing connectors	**Setra Lite Base Unit - Specified by customer** • Pressure Pickup Port (Setra RPS) • Extended tubing and pressure snubber
Mounting	• Single-gang US electrical box, China 86 box, European back box, or equivalent interior dimensions • Direct to wall	• Direct to wall or sheet metal panel	• Direct to wall	• None
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	Can be used vertical or horizontal
Dimensions	3.55” W x 5.00” H x 2.01” D (90 mm x 127 mm x 51 mm)	5.06” W x 5.06” H x 2.01” D (129 mm x 129 mm x 51 mm)	4.01” W x 5.47” H x 2.82” D (102 mm x 139 mm x 72 mm)	3.55” W x 5.00” H x 2.01” D (90 mm x 127 mm x 51 mm)
Weight	8 oz (0.5 lbs)	15 oz (0.94 lbs)	14 oz (.88 lbs)	19 oz (1.19 lbs)
Sample P/N	LITDR25WBDWLASAN	LITER25WBDBLASAF	LITDR25WBDWLASAS	LITDR25WBDWPASAP

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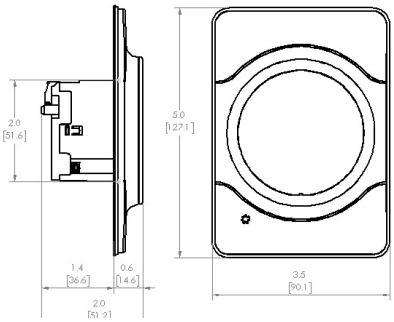
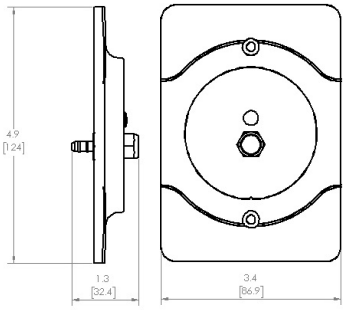
Dimensions

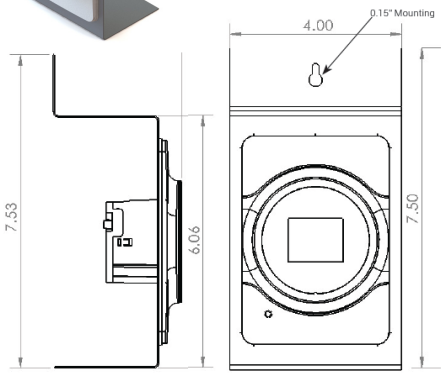
Setra Lite Base Unit



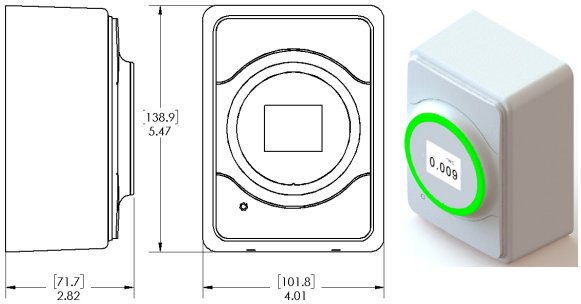
Dual Alert - Room Pressure Pick Up Port



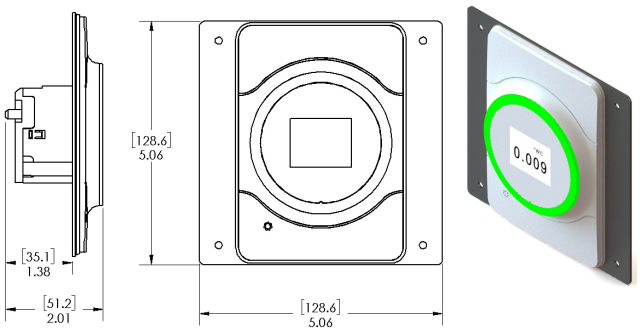
Quick-Mount Kit



Surface Mount Kit



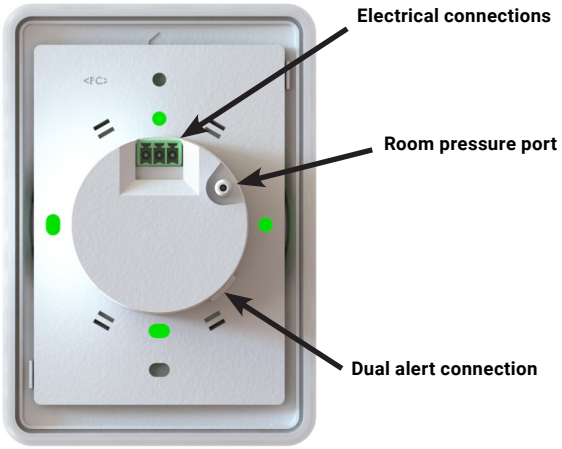
Flush Mount Kit



* For details of the standard room pressure pickup port see Setra RPS documentation

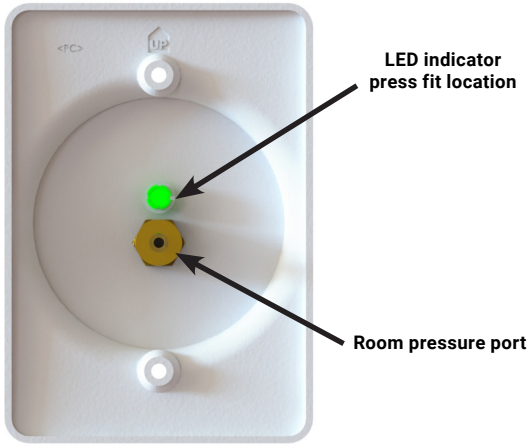
Wiring tubing connections

Setra Lite Base Unit



REAR VIEW OF WIRING / PRESSURE PORT

Dual Alert - Room Pressure Pick Up Port



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