



Settaflex^M

• Supports 3 rooms, 6 parameters each

- 7" Projected capacitive touch screen
- BACnet/IP & BACnet MS/TP
- Flush mount to wall
- Mounts in standard electrical boxes
- Full touch response with medical gloves
- No programing required
- 4 Inputs & 2 outputs on-board
- On-board or external pressure transducer
- High accuracy 0.25% sensor standard
- Monitor and control pressure, temperature, humidity, air change rate, and up to 6 user-defined parameters
- 4 Customizable room profiles
- Alarm on any digital input (door opening, HEPA filter status, etc)
- 2 Levels of password security
- User-defined on-screen text and icons
- Configuration options help reduce nuisance alarms
- 50mm Wall depth when sensor is mounted remotely
- $\boldsymbol{\cdot}$ Cloning features reduces time required for multi-unit installation
- Remote duplicate display shows parameters inside and outside of rooms

The Setra FLEX[™] provides a flexible room environmental control and monitoring solution in a simple-to-use package. An attractive flush-mount faceplate is complemented by an intuitive graphical display to meet any architectural requirement. The unit supports 3 rooms, monitoring up to 6 parameters for each room. An optional differential pressure sensor can be either factory-installed in the unit or ordered separately and installed above the ceiling. Integration with building automation systems is made easy through either BACnet/IP or BACnet MS/TP network protocols.

Modular design

A modular hardware design enables the FLEX monitor to fit in various wall thickness found around the globe. For applications which require the monitor to fit in wall depths less than 50mm, the FLEX can be ordered with an external pressure sensor. When mounting in a three gang electrical box, the FLEX can be ordered with an integrated on-board sensor. Sufficient on-board I/O provides connectivity for most common equipment and sensor applications. If additional connections are required, or if more advanced HVAC applications demand it, FLEX can work directly with a third party controller over BACnet. A high accuracy 0.25% differential pressure transducer is used in all pressure sensing options. A projected capacitive touch screen provides swipe functionality and allows for use with medical gloves. The faceplate is attached to the unit body, enabling both tamper resistant operation and easy opening for pressure calibration.

Setra FLEX-RM and FLEX-RC

FLEX software is designed to suit any application, with the ability to support up to 3 rooms. FLEX-RM (Room Monitor) provides monitoring only, for those applications where no control from the touch screen is needed. FLEX-RC (Room Control) offers monitoring, plus PI loop or network control of VAV boxes, venturi valves, or hydronic reheat valves. Software is preinstalled, with configuration and network integration done using simple setup screens. There is no programming required. When completed, configuration settings on one unit can be cloned to other devices using a standard USB thumb drive, thereby shortening commissioning time. Units can also be configured remotely over a BACnet network.

The FLEX monitor is both a controller and monitor, with audible and visual alarming on all room environmental parameters. The FLEX monitor enables users to save energy by choosing from a PI control loop or three BACnet Setpoint Override control points and two monitoring sets for any of four room modes, such as occupied and unoccupied.

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Specifications

Physical descript	ion
Dimensions	9.25" W x 6.56" H x 0.625"D (235.0mm x 166.7mm x 15.9mm)
Mounting	Triple-gang, double deep electrical box. RACO 697, Appleton M3-350, or equivalent
Case	Fire-retardant plastic UL94 V-0
Weight	2 lbs
Display	7" Projected Capacitive (PCAP) multi-touch. 800 x 480 pixels. Usable with medical gloves.
Display brightness	1-7
USB port	Micro-USB port for configuration cloning between units and software upgrades.
Audible alarm	Dual piezo
Communications	
Protocols (BACnet obj	ects can be found at setra.com) BTL- compliant
BACnet/IP using IPv	4, Ethernet CAT5 cables with RJ45
BACnet MS/TP up to shielded 16-24 AWG	o 76.8 kbps, 3-conductor, twisted, cable
Electrical	
Power	24 VDC, 24 VAC (18-30 VAC operational), 50-60 HZ
Power draw	13 W max, 10 W typica
Wire	2 or 3-conductor (depending on application) stranded unshielded twisted pair, 16-24 AWG
Connections	Removable Terminal Blocks
Regulatory compl	iance
CSA, CE, RoHS, WEEE	
Environmental da	ta
Operating temp. °F (°C) 32 to 120 (0 to 50)
Storage temp. °F (°C)	-40 to 185 (-40 to 85)
Operating humidity	5 to 95% RH (non-condensing)
Ingress Protection (IP)	rating IP54
Chamical register	

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).

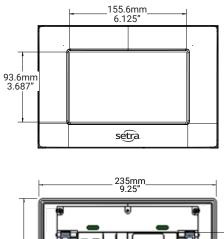
Performance	
Accuracy RSS	±0.25%
Non-linearity (BFSL)	±0.24%
Hysteresis	±0.05%
Non-repeatability	±0.05%
Span setting tol.	±0.5% Rdg
Zero/span shift % FS	± 0.03% PSI (±0.05% FS)
Overpressure	±1 PSI (15" WC for ≤0.10" WC FS)
Pressure media	Air or non-conductive, non-explosive gases
Pressure fittings	3/16" barbed fittings
Altitude	6562 ft. (2000 m) max.
Position	Housing to be 90° in reference to level surface, ±5°

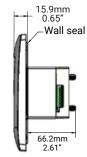
Software features

Home screen

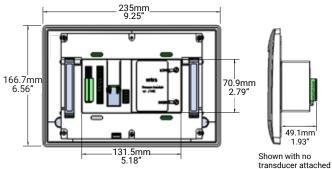
Rooms supported (3)	Carousel display to show up to 3 rooms, with monitor and control for each.				
Parameters per room (6)	Badges display pressure, temperature, humidity, air change rate, and up to 6 user-defined parameters. Each capable of monitor or control. All information available over BACnet.				
Room profiles (4)	Define profiles for room environmental control and monitoring. User-defined text. Used for modes such as occupied, unoccupied, cleaning, or decontamination.				
Pressure modes (3)	Positive, Negative, Neutral				
Background colors (5)	Green, yellow, blue, red, orange for room condition.				
Text (2)	User defined lines text that describe room condition.				
Icons (32)	Choose from a palette of icons to represent room condition.				
Control	Control loops assignable per device. Pl control loop for on-board analog outputs. User-defined set point limits. All information available over BACnet.				
Alarming					
Parameters per room (6)	Visual and audible alarms for pressure, temperature, humidity, air change rate, and up to 6 user-defined parameters.				
Visual	Green = normal, Red = alarm, Yellow = warning				
Audible	Dual buzzers				
Disable	One-touch all alarms disable function.				
Silence	Selectable 0 - ∞ seconds				
Delay	Selectable 0 - 1200 seconds				
Latch	Alarm option to hold alarm state until manually reset by operator.				
Remote	Remote annunciation to dedicated unit (p/n SRAN or to multi-unit room monitor				

Dimensions





Shown with in-wall transducer attached



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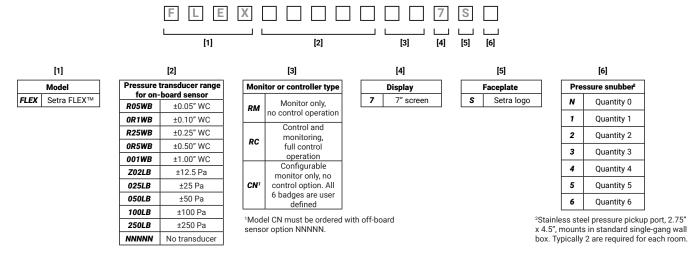
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Ordering information

Example part number: FLEX0R1WBRM7S4

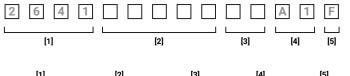
Setra Flex, ±0.10" W.C., Room monitor only with pre-configured badges P, T, RH, ACH, and 2 user-defined badges, 7 inch display, Setra logo on faceplate, 4 pressure snubbers:.



Model 264 Pressure Transducer

Example part number: 2641R25WB11A1F

Model 264, $\pm 0.25''$ WC bidirectional pressure range, 4-20 mA output, 1/2 in. conduit enclosure, $\pm 0.25\%$ FS accuracy:

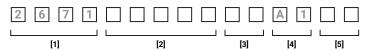


111		[2]		[3]		[4]		[3]	
	Model	641 Model 264 (bidirectional)		Output		Electrical		Accuracy	
	2641 Model 264			11	4-20 mA	Ie	rmination 1/2 in.	F	±0.25% FS
		R05WB		2D 0-5 V	0-5 VDC	A1	conduit		
		OR1WB	±0.1" WC			11	enclosure		
		R25WB	±0.25" WC						
		OR5WB	±0.5" WC						
		001WB	±1" WC						

Model 267 Pressure Transducer

Example part number: 2671R25WB11A1FD

Model 267, ±0.25" WC bidirectional pressure range, 4-20 mA output, 1/2 in. conduit enclosure, ±0.25% FS accuracy with LCD display:



	[1] [2]		[3]		[4]		[5]			
Model		Pressure range		Output			Electrical		Accuracy	
2671	Model 267	R05WB	ectional) ±0.05" WC	11	4-20 mA	16	1/2 in.		±0.25% FS,	
		OR1WB	±0.1" WC	2D	0-5 VDC	A1	Conduit Enclosure	FN	no LCD display	
		R25WB	±0.25" WC	2E	0-10 VDC					
		OR5WB	±0.5" WC					FD	±0.25% FS, w/ LCD	
		001WB	±1" WC					1	display	
		UUTWB	1 1 1 100					L		

AO PWR VDC Al• L2 mA +24V COM L1 COM AI IN RELAY +24V COM *AI for on-board IN1 +24V transducer or general Al input. COM NO +24V С IN2 NC COM SERIAL IN3 BACNET 1 COM B+ 2 Α-3 GND 4

Inputs & Outputs

Universal inputs (3)	0-5 VDC, 0-10 VDC, or 4-20 mA input signal* Configurable for either Analog or Digital signals. Use external sensors for pressure, temperature, humidity, or any suitable application. Use as digital input for door, HVAC filter DP, or duct static DP pressure switch.
Analog input (1)	Dedicated for use as input for either on-board pressure transducer, or general Al input. Used only when no transducer is purchased on unit.
Analog output (1)	0-5 VDC, 0-10 VDC, or 4-20 mA output signal. Use as PI control loop to modulate reheat valves or other analog driven devices, pressure output signal, or mirror an input signal. Can be assigned to any room parameter.
Relay output (1)	24 VDC SPDT NO/NC Relay. Use as remote alarm annunciator or other NO/NC applications. Contact rating 2.0A @ 30 VDC
Wire	Stranded shielded twisted pair, 16-24 AWG .14-1.5 mm ² cross sectional area

*Installer must provide 250Ω resistor required for 4-20mA signal

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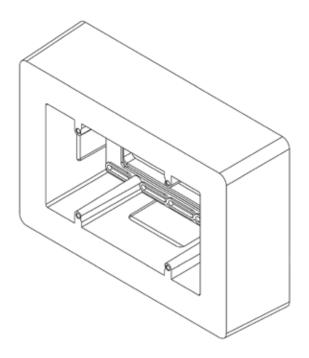
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Surface mount adapter boxes

229971

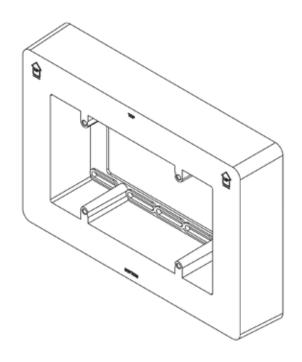
(For FLEX with on-board pressure module)



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229973

(For FLEX without on-board pressure module)



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Mounting hardware included with adapter box.

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