

setraFLEX™

A Monitoring and Sensing Solution
for Critical Environments

We design and deliver
premium sensing solutions





Healthcare



Life Sciences



Laboratories



Cleanrooms

With Setra FLEX™, you have options

Setra's environmental monitoring technology has been field-tested in hospitals, pharmacies, laboratories, and cleanrooms across the globe for over a decade. The Setra FLEX™ platform easily exceeds the growing regulatory requirements in some of the most tightly-controlled spaces in healthcare, research, and manufacturing.

Setra FLEX™ can be configured with either third-party sensors, or can be used in conjunction with Setra's line of differential pressure, humidity, and particle sensors – helping facility engineers keep critical environments safe for everyone.

Setra is trusted by

- Harvard Medical School
- Genzyme
- Mayo Clinics
- Merck
- Brigham and Women's Hospital
- Abbott Laboratories
- St. Jude's Medical Center
- Memorial Sloan Kettering Cancer Center
- Stanford University Medical Center

and many other institutions

The FLEX™ Display

The FLEX has a large, 7-inch touch screen display that is compatible with medical gloves for easy navigation and control. The high resolution display allows the user to easily view the graphics and text from across the room.

Room label

Room safety status: NORMAL, WARNING, ALARM, STANDBY

Intuitive full screen and setup icons

Status icons and customizable text

Badges show room parameters, values, units, and state

Room 1 Profile 1					
NORMAL					
FACTORY DEFAULT					
-0.020	4.370	4.370	4.370	-0.040	-0.040
"WC - NEU	"F	%RH	ACH	"WC	"WC
Pressure	Temperature	Humidity		User Def 1	User Def 2

Four user-defined room profiles, plus standby

Room 121			
OCCUPIED			
UNOCCUPIED			
OCCUPIED			
CLEANING			
VHP MODE			
STANDBY			
0.028	75.5°F	37	22.0
"WC - POS	"F	%RH	ACH
Pressure	Temperature	Humidity	ACH

Alarms change status bar, turn screen red, and indicate badge in alarm

Mercy OR 23			
ALARM			
SURGERY IN PROGRESS			
0.007	75.5°F	37	22.0
"WC - POS	"F	%RH	ACH
Pressure	Temperature	Humidity	ACH

FLEX-RC enables any parameter to go into local override, and for a limited time, saves energy

Operating Room 17			
OCCUPIED			
STANDBY			
Temperature	72.5°F	68°F	6:00 PM
SET	CANCEL	OVERVERRIDE TO	OVERVERRIDE UNTIL
Pressure	Temperature	Humidity	Air Change

View all rooms at once

Isolation 24-A	Isolation 24-B	Anteroom
NORMAL	NORMAL	NORMAL
DROPLET PRECAUTION	READY FOR PATIENT	SAFE TO ENTER



setraFLEX™

The **Setra FLEX™** is a complete monitoring and control solution in a pre-configured and easy-to-use package. Offering all of the essential parameters that require monitoring, the FLEX will meet all of your critical environment needs.

Going beyond room pressure

From the pressure experts comes the most accurate and reliable room pressure monitor in the industry – but that's not all. Now you can monitor and control pressure, temperature, humidity, and air changes per hour; plus, any two additional parameters you may require. Visualize the data by either hard wiring the sensors, or by mapping network objects via BACnet. The FLEX is flexible enough to meet any HVAC sensing or control need and customizable enough to monitor energy usage and industrial equipment.

No programming, easy configuration

The Setra FLEX comes out-of-the-box ready to configure at the job site. No programming or training is required for setup. Just configure your sensors and network on-site and the FLEX is ready to go. If there are many units to configure, our unique USB cloning feature helps you get them done even faster, saving time and money.

A Model for any application

Whether your application is monitoring common parameters or multiple unique parameters or even controlling air flow in the space, the Flex product line has you covered. Three basic models cover all your needs.

- RM model - Basic monitoring and preset with common parameters
- RC model - Allows for control of an external device based on monitor inputs
- CN model - All parameters are customer defined allowing for maximum flexibility

SETRA FLEX FEATURES

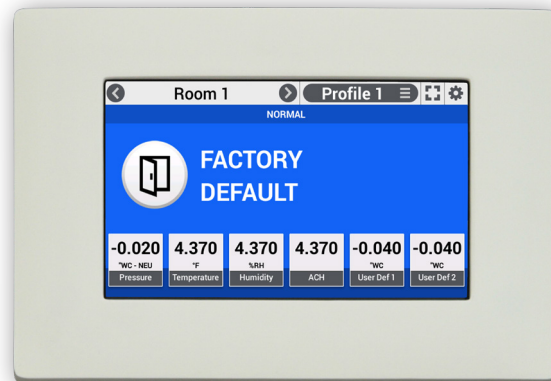
- Monitor and Control Up to 3 Spaces
- 6 Parameters per Room, Total 18
- 7" Touch Screen, Works with Medical Gloves
- Integrates with BMS Systems
- BACnet/IP and BACnet MS/TP
- USB Cloning Feature Saves Time
- High Accuracy Pressure Transducer

APPLICATIONS & STANDARDS

- Hospitals - ASHRAE Standard 170
- Pharmacies - USP 797 & USP 800
- Bio-safety & Vivarium Laboratories
- Pharmaceutical Manufacturing
- Custom for OEM, Energy, Industrial

FLEX AS A HUB

A Monitoring and Sensing Platform for Critical Environments



Pressure



Temperature



Humidity

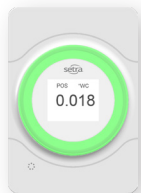


Particle Sensing

Pressure Sensing

You can plug in external pressure sensors to monitor additional rooms/spaces from 1 Setra Flex monitor.

Many users choose to plug the Setra Lite Room Pressure Indicator to monitor secondary spaces.



LITE

Temperature Sensing

Some critical spaces such as food manufacturing plants, compounding pharmacies, and data centers need to keep a consistent temperature range. Setra High-Accuracy Temperature Sensors combined with Setra Flex can alert you if temperatures fall out of a specified range.



SRH200

Humidity Sensing

Setra's line of high-accuracy and reliable Humidity Sensors tie directly into Setra Flex. This allows users to monitor humidity levels in a given space from Setra Flex or over BACnet.



SPC 5000

Particle Sensing

Certain applications require that particle counts stay within certain ranges. Monitor live particle count data by pairing a Setra Particle Counter with Setra Flex.

Flexibility for Installation

FLEX was designed with construction installations in mind, and the flexibility often needed to accommodate project site challenges and installer preferences. Want the sensor in the wall? No problem. Order FLEX with an on-board transducer. Want all the pressure tubing above the ceiling? No problem. Order FLEX with external transducers; or combinations of both.



Easy Installation

1. Rough-in wires and tubing.
2. Connect pressure fittings and I/O.
3. Touch screen configures room.
4. Clone configuration for other units.
5. Done. Site commissioned.

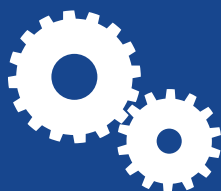
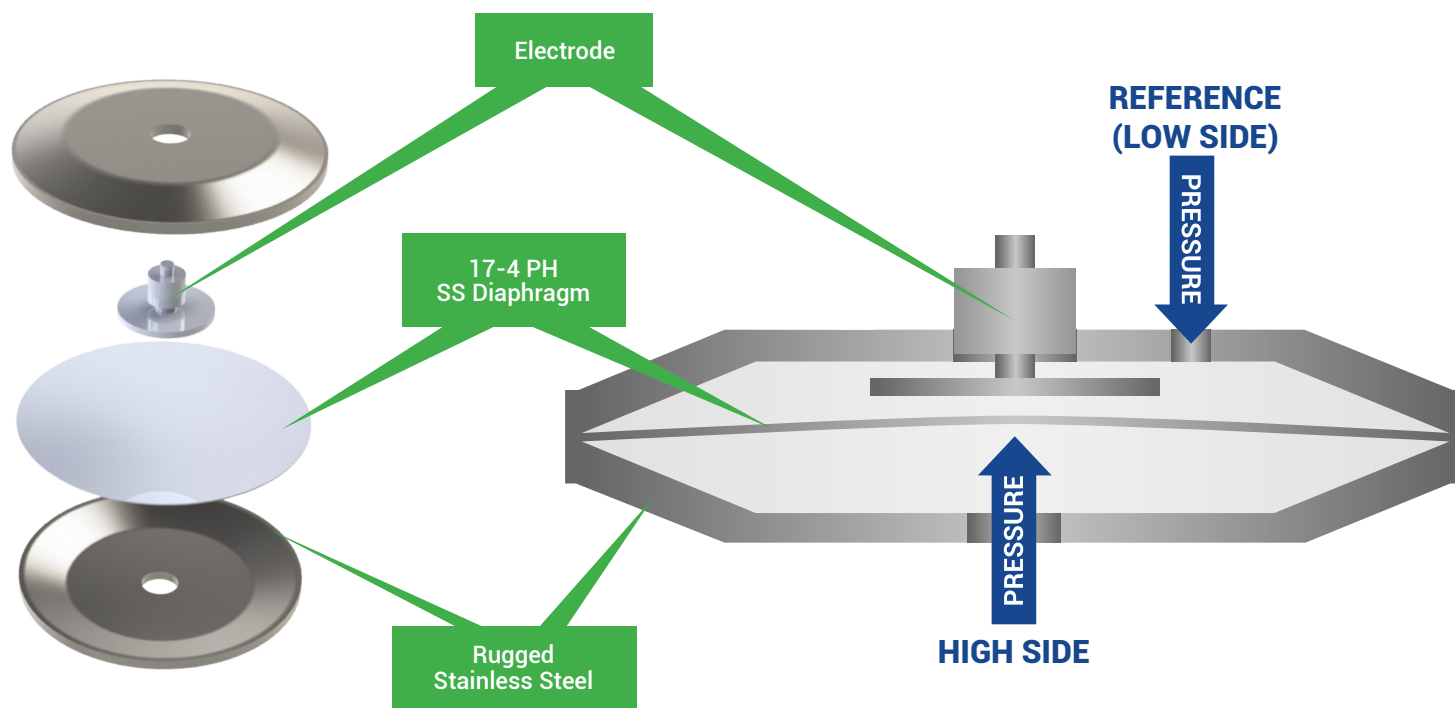


Accuracy

Every unit includes ultra-high accuracy $\pm 0.25\%$ full scale sensors, with 0.0001" W.C. resolution.

Variable Capacitance

When used for room differential pressure, Setra FLEX has the option of either an on-board or external sensor, depending on the installer's preference. In either case, Setra's industry-best high-accuracy sensor is used. Our patented variable capacitance technology is based on an all stainless steel micro-tig welded sensor. The radially tensioned stainless steel diaphragm and insulated stainless steel electrode, positioned close to the diaphragm, form a variable capacitor. This provides industry-best accuracy for very low pressures and unmatched long-term stability. Unlike competitors, who use a flow-through sensor that can become clogged or contaminated, Setra's dead-ended sensors ensure ultimate accuracy for patient safety.



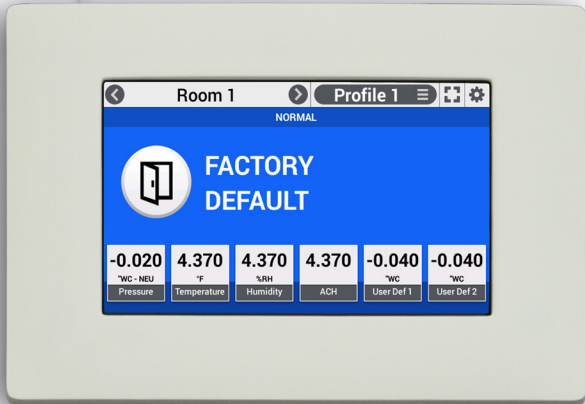
Reliability

To Setra, reliability means long-term stability of sensors that drift <math><0.05\%</math> of full scale per year.



Custom Solutions

As a flexible platform, FLEX can be modified at the factory to meet specific application needs. Contact your sales representative for more information.



setraFLEX™

versus the competition

Key Feature	Setra FLEX	Competitor #1	Competitor #2
7" touch screen display	✓	X	✓
Support for 3 rooms	✓	✓	X
User-defined room profiles	✓	X	✓
User-defined room parameters	✓	X	X
Support for 18 parameters	✓	X	X
Integrated multi-room monitor	✓	✓	X
BACnet/IP communications	✓	X	X
Configurable over the network	✓	X	X
USB cloning feature	✓	X	X
High-accuracy 0.25% sensor standard	✓	X	X
100% made in the USA	✓	X	X

Ready to get started?

Talk to a Setra representative today about your project needs.

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