BOISWOOD

GAS AND LIQUID CONTROL TECHNOLOGIES

Pressure & Vacuum

Flow

Level & Temperature

Tube & Fittings

HVAC/R

Custom Services

HVAC/R

Products and Services Catalogue

WE'RE KNOWN FOR SELLING SOLUTIONS

Our journey started in 1989, when Boiswood was founded. As our knowledge and expertise grew, so did our vast range of products and services, and today, we are one of the country's most well respected and trusted suppliers of gas and liquid control technologies.

We are partnered with several high-quality, globally reputable manufacturers with a distinct range of products and services that offer unique features and benefits to EPC's, System Integrators, OEM's and End Users....our customers.

Our whole business culture centres around our genuine commitment to hands-on service and support, whenever and wherever this is required. We offer unparalleled advice and support, and our 'one stop shop' approach removes all the headache and hassle from our customers, ensuring you always get what you need on-time, on-budget and the perfect fit for your application.

We have over 30 years of successful experience in an extensive range of applications and processes within the markets we serve. Our visionary, technically astute and customer focused approach ensures we consistently add value. Working closely with our customers and supply partners ensures we stay up to date with the latest technologies, using our insight to facilitate the niche and specialist markets we serve.

You can rely on us to specify, supply and support all your gas and liquid control needs.

Using the most advanced products in the industry from world renowned suppliers, we offer an extensive catalogue of industrial, HVAC/R and BMS instruments such as differential pressure sensors, current transducers, room condition pressure monitors, humidity sensors, particle counters, displays, calibrators, power meters and more.

INTELLIGENT-CONNECTED-SOLUTIONS

We can supply products to fit a variety of applications, verifying process conditions within simple air management ducts to more critical accuracy applications such as those required within high purity, such as clean rooms, hospitals, vivarium's and research laboratories. Alongside this, we supply a well-rounded, fully connected solution to many M&E and HVAC/R contractors instrumentation challenges, through our general portfolio and specifically our Setra products. Always seeking sustainable solutions, our products integrate with Building Automation and Management Systems (BMS Systems) to control and monitor environments for efficiency and energy saving purposes.

WE'RE TRUSTED BY…

Product Solutions

LITE SERIES
Digital Visual Pressure Indicators

The Lite provides a simple, cost-effective, and accurate way to measure and display room differential pressures in areas that typically require manual verification.

TECHNICAL DATA:

±50 Pa up to 250 Pa Pressure Ranges • Available in " W.C. • ±0.5% FS Accuracy • 0-5, 0-10 or 4-20 mA Output (Field Selectable) • 24 VAC or 24 VDC Excitation • RGB Colour Display with LED Backlight • 3/16" Barbed Pressure Fittings • 0 to +50°C Operating Temperature

FEATURES & BENEFITS:

Simple to Install • Red and Green Visual Alarm • Audible Alarm Optional • 3-Button Easy to Use Interface • Sleek and Attractive Wall Plate • Saves Preventative Maintenance • Fully User Configurable

Pg. 11

267 SERIES
Differential Pressure Sensors

Modbus

The 267 is the most rugged high accuracy, low differential pressure transducer available on the HVAC market – offering a vast range of customisable options fit for your application.

TECHNICAL DATA:

0.1" W.C. up to 100" W.C. Pressure Ranges • Optional LCD Display • NEMA 4 Rated Housing • Integral Static Pressure Probe • 24 VAC or 24 VDC Excitation • Up to ±0.25% FS Accuracy

FEATURES & BENEFITS:

Fast Delivery • Huge Global Install Base • Very Competitive on pricing • Most reliable differential pressure sensor on the market • Suitable for harsh environments

FLEX SERIES
Environment Monitors

BACnet

The FLEX provides a flexible room environmental control and monitoring solution in a simple-to-use package.

TECHNICAL DATA:

Supports 3 Rooms (6 Parameters Each) • 7" Projected Capacitive Touch Screen • Onboard Sensor Optional • Monitor Or Control Optional • IP65 Rated for Wash-Down

FEATURES & BENEFITS:

Fast Delivery • BACnet Capable • High Performance • No Programming Required • Flush Mount to Wall

Pg. 13

SRIM2 SERIES
Room Isolation Monitors

The SRIM2 is a high performance monitor for measuring low differential pressure in critical applications, perfect for anyone who requires cost-effective local monitoring and alarming.

TECHNICAL DATA:

Dead-ended On-Board Sensor • 3-Colour LCD Display for Easy Setup and Room Display • Configurable Audible & Visual Alarms • Accuracy down to ±0.05% • Up to 2,500 Pa Pressure Range • Removable Faceplate for "no hassle" calibration

FEATURES & BENEFITS:

Alarm on 4 parameters (Pressure, Temperature, RH and Door Sensing) • Save on Calibration and Installation • Maximise Safety

POWER METER SERIES
Revenue Grade Power Meters

BACnet

Modbus

The Power Meter is a networked revenue grade power meter built on a versatile and powerful platform designed to meet the high demands for any submetering application.

TECHNICAL DATA:

Monitor 3, 12 or 48 loads on any combination of single and/or three phase systems • Monitor voltage, current, power, energy and many other parameters • Onboard display

FEATURES & BENEFITS:

Rotatable display to simplify installation • Field selectable communication protocols • Safe access without PPE • Easy installation and configuration

MRX SERIES
Multi-Range Transducers

The MRX consists of general and critical multi-range pressure transducers, completely field selectable with universal design makes them perfect for any building management system.

TECHNICAL DATA:

MRG, MRC and MR1 models available • Up to 2,500 Pa Pressure Range • Field Configurable Probe, Range and Output • IP67 Rated Housing • LCD Display • Selection of Mounting Styles and Electrical Fittings

FEATURES & BENEFITS:

Fast Delivery • Field Selectable Pressure Ranges • Simple 5 step setup • Field Accessible Push-Button Zero & Span • Service and Retrofit Friendly

Product Solutions

SRCM SERIES
Room Condition Monitors

The SRCM is the highest performance BACnet capable product for measuring low differential pressure in critical environments.

TECHNICAL DATA:

Dead-ended On-Board Sensor • 4.3" Colour LCD Display for Easy Setup and Room Display • Configurable Audible & Visual Alarms • Accuracy down to ±0.25% • Up to 1,000 Pa Pressure Range • BACnet Capable

FEATURES & BENEFITS:

Monitor 2 rooms with one single device • Save on Calibration and Installation • Maximise Safety

setra

SRH SERIES
Humidity Sensors

The SRH Series meets the highest requirements in demanding climate control applications measurement parameters such as RH, Temp, Dew Point, Absolute Humidity and Mixing Ratio.

TECHNICAL DATA:

Wall Mount, Duct Mount or Outdoor Versions • Variation of Outputs • Temperature Measurement Optional • Modbus and BACnet Versions Available • Display Optional

FEATURES & BENEFITS:

Low cost of ownership • Excellent long-term stability • Sensor coating protects and extends performance

setra

MICROCAL SERIES
Advanced Modular Pressure Calibrators

The Microcal automated pressure calibrator is used as a stand-alone calibration standard for differential and gauge pressure sensors found in critical environments, developed in partnership with NASA.

TECHNICAL DATA:

Up to 8 hours of battery life • True low range dual reference pressure sensors with NIST traceability • Modular pressure references

FEATURES & BENEFITS:

Immediate ROI • Increased calibration ratios • Easy step-by-step user interface process • Pressure generation & monitoring modes to verify system performance

setra   **TRUSTED BY** NASA

SPC5000/SPC7000 SERIES
Remote Airborne Particle Counters

The SPC5000 and SPC7000 remote airborne particle counters are the most feature advanced available on the market.

TECHNICAL DATA:

Measures between 0.3 µm to 25 µm particle sizes • 0.1 CFM (2.83 LPM) flow rate • Up to 6 channel measurement • Wall Mount or Benchtop Versions Available • Pump Version Available • Combined RH & Temp Optional • Connects via Ethernet, USB or Wireless

FEATURES & BENEFITS:

Large icon driven colour touch screen display • Stores up to 45,000 sample records, 1,000 sample locations and 50 recipes • Displays and prints user-definable reports • Easy to clean and wipe down

setra

AQM5000/AQM7000 SERIES
Air Quality Monitors

The AQM500 and AQM7000 series air quality monitors measure qualities of temperature, relative humidity, CO2 and TVOC in select configurations.

TECHNICAL DATA:

Measures between 0.3 µm to 25 µm particle sizes • 0.1 CFM (2.83 LPM) flow rate • Up to 6 channel measurement • Wall Mount or Benchtop Versions • With Internal Pump • Combined RH, Temp, CO2 & TVOC Optional • Connects via Ethernet, USB or Wireless

FEATURES & BENEFITS:

Large Colour Touch Screen Display • User-Selectable Adjustable Particle Channel Sizes • Modbus RTU, ASCII or TCP Connectivity • Internal Audible Alarm with User Selectable Thresholds

setra

SRPM SERIES
Room Pressure Monitors

BACnet

The SRPM is our standard single room BACnet® capable room pressure monitor for measuring low differential pressures in many critical applications.

TECHNICAL DATA:

From ±0.1 up to ±5" W.C. • Voltage, Analogue and BACnet® Outputs • Down to ±0.25% FS Accuracy • 0 to +50°C Temperature • 24, 120 or 240 VAC Excitation

FEATURES & BENEFITS:

On-Board Sensor • LCD Touch Screen for Easy Setup and Room Display • Configurable Audible & Visual Alarms • Easy Surface Mounting • 2-Layer Password Protection for Safety

setra

Product Solutions

3100 SERIES
Thin Film Pressure Transducers

In Stock

The 3100 Series is ideal for OEMs that require consistent high levels of performance, reliability and stability utilising the sputtered thin film technology.

TECHNICAL DATA:

Pressure Ranges from 0 – 7 BAR up to 2,200 BAR • High Proof Pressures • Broad Choice of Outputs and Pressure Ports • Pressure and Temperature Measurement Combination • RoHS Compliant • From -40 to +125°C Temperature Ranges

FEATURES & BENEFITS:

Unbeatable Price/Performance Ratio • Compact Design • OEM Discount Available

---

RFO & RFS SERIES
Flow Rate Monitors

The RFO and RFS flow rate monitors utilise paddlewheel design combining high visibility rotors with solid-state electronics compact into a neat panel mount housing.

TECHNICAL DATA:

4.5 to 24 VDC Pulsed Output • Polypropylene, Brass and Stainless Steel Materials • ¼" – 1" Port Sizes • NPT and BSP threaded connections • Low and High flow ranges available

FEATURES & BENEFITS:

Unbeatable Price/Performance Ratio • OEM Discount Available • Low flow adapter supplied as standard

---

SCCT SERIES
Split Core Current Transformers

The Split Core Current Transformers provide a high accuracy current measurement over a wide dynamic sensing range for power metering applications.

TECHNICAL DATA:

From 20 to 400 Amps • 333mV Output at rated current

FEATURES & BENEFITS:

Industries first UL 2808 certified CTs

T: 01452 330011 | info@boiswood.co.uk | www.boiswood.co.uk

PRESSURE GAUGES
Including Mechanical and Digital Pressure Gauges and Indicators

INSTRUMENTATION VALVES
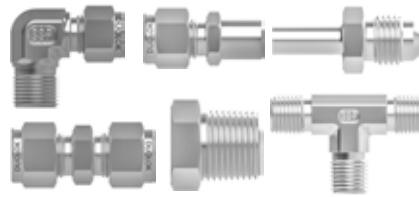Including Ball, Needle, Plug, Check. Toggle, Relief and Quick Connects

MANIFOLD VALVES
Including Block, Bleed, Vent and Gauge Manifolds

CONTROL VALVES
A range of pneumatic and electric Globe, Bellows and Control Valves

INSTRUMENTATION FITTINGS
Including Twin Ferrule Compression Tube, Pipe and Weld Fittings

HIGH PURITY FITTINGS
Including FaceSeal™, Microweld and PFA/PTFE Fittings

FILTERS, STRAINERS & SEPARATORS
A range of filters, strainers and separators for process and vacuum

BURSTING DISKS
Including forward and reverse acting bursting disks and holders

TUBING, PIPING AND HOSES
A selection of metal tubing, hoses and PTFE/PFA piping.

PRESSURE SWITCHES
Including Mechanical and Digital Pressure Switches and Sensors

SOLENOID VALVES
Including miniature, latching and cryogenic versions.

WIRES & SEALS
Including feedthroughs, sealing glands and packing glands.

CUSTOM SOLUTIONS

Boiswood have been involved in several custom build projects to meet our customers' specific requirements, please visit our website to read our application successes or feel free to ask for more details.

Many of our customers call upon us for subassembly, service, repair and testing solutions from within our manufacturer-certified headquarters.

Value Added Services

In-House Service Centre

We can offer manufacturer certified in-house evaluation, repair, testing, servicing and assembly of our products from within our Boiswood HQ.

Local Technical Support

We offer a technical helpline from our HQ as well as having a "man on the ground" for on-site support whenever and wherever this is required.
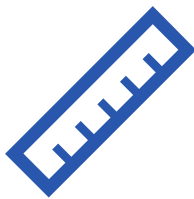
Fast Turnaround

Our local stocks allow us to quickly respond to requirements. We hold a vast range of products in stock so that they're always readily available.

Training Services

We provide a range of educational classes and training seminars that can be delivered from Boiswood HQ or on-site.

Design Services

Over the years we have been involved in many bespoke product designs and system build solutions for our customer base.

Response Times

We endeavour to provide all our customers with unrivalled fast service with quick responses to both technical and commercial queries.

MR1 MultiSense™ Pressure Transducer

The MR1 pressure transducer is the ideal solution for any contractor, combing the flexibility of a multi-range with the performance of a single range sensor. The MR1 has 8 **field-selectable pressure ranges and 3 field-selectable outputs**, easily adjustable on the job with a flip of a switch or jumper. The MR1 uses an **IP67/NEMA 4** rated housing and has a conduit fitting for easy wiring, making it the ultimate solution for any general HVAC application.

Critical Compliance Monitoring Project

Our customer is a leader in their market of designing and installing building management systems (BMS) for the pharmaceutical industry. This specific application involved an instrumentation control panel.

Customer Requirements

60 Differential Pressure Sensors to be designed into the equipment panels and installed on-site. The sensors had to be small in physical size in order to fit in their existing panels using DIN Rail mounting.

Why Boiswood Was Successful

Our MR1 was chosen for its compact size, field selectable pressure ranges and neat housing with configurable mounting options.

Pressure indication   Simple green status   Red indicates alarm

setra lite ™
Room Pressure Indicator

Our Lite Visual Pressure Indicator provides a simple, cost-effective, and accurate way to measure and display room differential pressure to solve challenges in areas that require manual verification. The unit provides a clear indication of positive or negative room pressure using its intuitive light ring and has been cleverly designed to keep installation, set-up time and maintenance to an absolute minimum.

Developed with Hospital, Medical, Pharmaceutical and Clinical environments in mind, we are here to help you with speedy production and unrivalled technical support.

Centred around years of engineering, development and customer feedback, we have produced a complete solution to stage as an upgrade to Magnehelic pressure gauges. Our pressure sensor includes the Local Display and Digital Output as standard.

Solutions That Save Lives

- Simple pressure indication with local display and digital output as standard
- Offers preventative maintenance and minimal installation costs
- Fully configurable via touch buttons mounted on sleek and attractive wall plate

1. Model		2. Transducer Range		3. Accuracy		4. Special Options	
LITE	Setra Lite	**R25WB**	±0.25" WC	**D**	±0.5% FS	**IR**	Inside Room
		0R5WB	±0.5" WC			**AA**	Audible Alarm
		001WB	±1" WC				
		050LB	±50 Pa				
		100LB	±100 Pa				
		250LB	±250 Pa				

FAST INSTALLATION 1

At the size of a standard light switch, the sleek and attractive wall plate allows the Lite to be installed in a matter of minutes.

PREVENTATIVE MAINTENANCE 2

No more manually checking each room, save time and money by utilising the visual, audible and output options.

SIMPLE TO CUSTOMISE 3

Full configuration is easy and user-friendly, with just 3 touch buttons to set your own custom parameters.

Quick Mount Lite Kit

Available with temporary quick mount and portable pre-assembled configurations, we have optimised these custom solutions to help combat viral outbreaks and diseases to assist integrators with rapid critical care setup challenges.

Construction Kit

The Lite Construction Kit provides everything you need to monitor spaces around on-site construction or fume extraction. Simply place the kit outside the work area and run the tubing inside to set up continuous readings and alarming. With this kit you can have the confidence that the surrounding areas are remaining safe and clean.

AIIR Watch

The Lite AIIR Watch unit has been designed as a portable and on-demand solution for generating negative room pressures. The room pressure is monitored using a standard in-built Lite, whilst sterilising exhaust air with a UVC light and HEPA filter. This compact and quiet unit is delivered user-ready for schools, nursing homes, dentist offices, hair salons, office buildings and more.

setraFLEX™
Environmental Monitor

Our 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 or ordered separately and installed about the ceiling. Integration with building automation systems is made easy through either BACnet/IP or BACnet MS/TP network protocols.

Going Beyond Room Pressure

- Monitor and Control Up to 3 Spaces with 6 Parameters per Room (18 Total)
- 7" Touch Screen that works with Medical Gloves
- Integrates easily with BMS Systems and USB Cloning Feature saves installation time
- Designed to meet ASHRAE and USP standards for hospitals and pharmacies

The 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.

Now you can monitor and control pressure, temperature, humidity, and air changes per hour; plus, any two additional parameters you may require. Visualise the data by either hard wiring the sensors, or by mapping network objects via BACnet. The unit is flexible enough to meet any HVAC sensing or control requirements.

The FLEX™ comes in two models, providing both the best price-to-performance as well as the one-of-a-kind feature set to meet the most difficult application needs.

The FLEX™ Display

The FLEX™ has a large, 7-inch touch screen display which provides swiping functionality and use with medical gloves. The high resolution display allows the user to easily view the graphics and text from across the room.
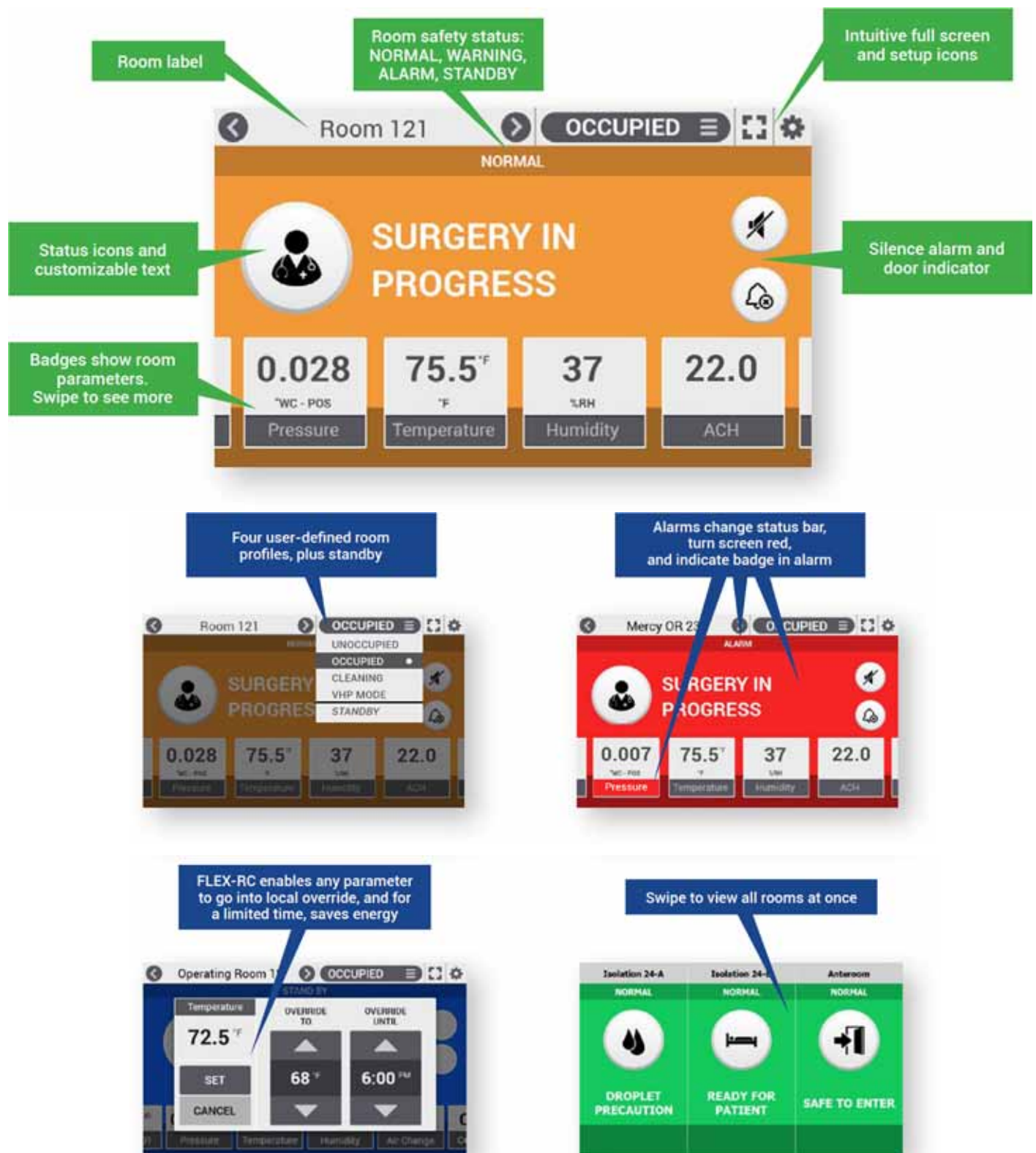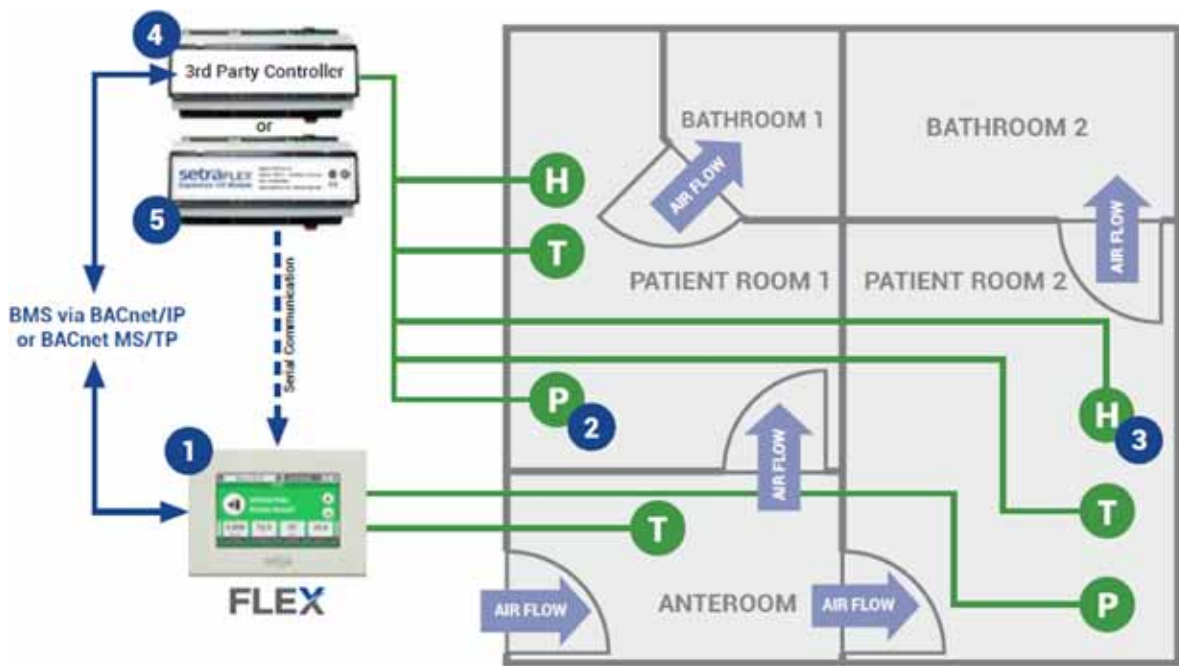
Products in Focus

You Have Options

Configure the FLEX™ multiple ways: wire sensors directly to the on-board I/O or via the optional Expansion I/O module. Or, if you prefer, pick up pre-wired sensors from the third-party BMS controllers and map to FLEX™ via network configuration.

Two Patient Rooms with Common Anteroom

1 Install FLEX in a standard electrical box at a location suitable for your application.		**T** Temperature sensor
2 Use either external pressure sensors, or an on-board FLEX transducer.		**P** Pressure sensor
3 Temperature, humidity, and other sensors can be wired directly to the FLEX.		**H** Humidity sensor
4 If using a third-party BMS controller, network via BACnet/IP or BACnet MS/TP.		
5 If using FLEX Expansion I/O module, a single wire integrates seamlessly with FLEX.		

Variable Capacitance

Our patented variable capacitance technology is baded on all stainless steel micro-tig welded sensor. The pradially tensioned diaphragm and insulated electrode form a variable capacitor. This provides the industry-best accuracy for very low pressures and unmatched long-term stability.
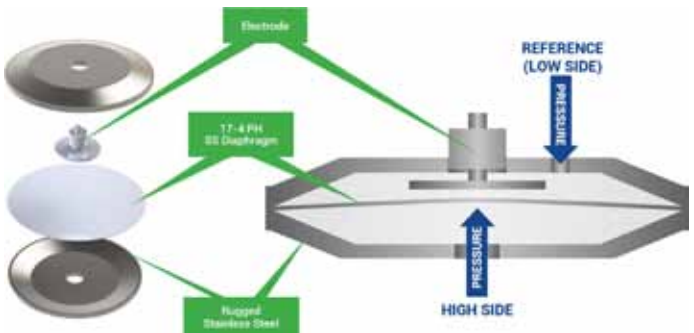
Flexible Installations

FLEX™ was designed with construction installations in mind, and the flexibility often needed to accommodate project site challengers and installer preferences. Want the sensor in the wall? No problem. Order with an on-board transducer. Want all the pressure tubing above the ceiling? Order with external transducers; or combinations of both. Need additional I/O for your rooms? Order the Expansion I/O, and get support to hard-wire all the sensors you need.

Versus the Competition

Key Feature	Setra FLEX™	Competitor #1	Competitor #2
7" Touch Screen Display	✔	✘	✔
Support for 3 Rooms	✔	✔	✘
User-Defined Room Profiles	✔	✘	✔
User-Defined Room Parameters	✔	✘	✘
Support for 18 Parameters	✔	✘	✘
Integrated Multi-Room Monitor	✔	✔	✘
BACnet/IP Communications	✔	✘	✘
Configurable over the network	✔	✘	✘
Expandable I/O	✔	✘	✘
USB Cloning Feature	✔	✘	✘
0.25% High Accuracy Sensor Standard	✔	✘	✘
100% Made in the USA	✔	✘	✘

Products in Focus

Continuous Environmental Monitoring System

We are now introducing the new CEMS, Continuous Environmental Monitoring System, which provides real-time environmental data monitoring for your critical spaces and clean environments. This system enables you to visualise data over time to demonstrate patterns and take strategic action to protect your facilities.

MONITOR, TREND & ALERT

CEMs software collects **real-time data** from in-room sensors and provides **actionable information** and feedback to users, including **data visualisation, alarm notifications** and **audit logs.**

3RD PARTY COMPATIBILITY

CEMs software accepts inputs from both our sensors as well as **3rd party hardware.** We can help, regardless of if your application has existing hardware installed or if you're building a new facility.

LIMITLESS PARAMETERS

Designed to be adaptable, CEMs can **easily accommodate any site specific needs.** Common parameters to monitor include Pressure, %RH, CO2, Particle Counting, ACH and Door Status.

How it Works

Sensor Hardware → Setra Cloud Analytics and Data Storage → Visual Monitoring, Trending, & Alarming via CEMS˚ Software

Scale & Support

CEMs software can be installed through BACnet allowing the entire system to be customised for your site. We can provide support during and after the setup phase.

Security

CEMs software can be deployed securely in the cloud, or on a standalone on-premises network. Encrypted is communicated via WiFi, Cellular Dadata ta or LAN.

What is Hot Aisle Containment?

Hot aisle containment is a layout system for computing equipment in data centres. The aim of this system is to conserve energy and decrease cooling costs by managing the air flow (not letting the hot and cold air mix) for optimum efficiency.

As engineering has progressed, there are ways hot aisle containment can be monitored through different applications that use specific products, such as variable fan drives (VFDs), to prevent cold air and hot air from combining.

Boiswood offer a range of perfect products that can be used within hot aisle containment systems.

1. **The Lite Room Pressure Indicator** accurately displays and monitors room differential pressure in an area that demands manual verification. The easy-to-use visual display shows a ring of light; a simple green status and red that means there's an issue. This allows the managing staff to swiftly and simply correct an issue with the room pressure. The Lite has more features that include an always-on digital display that shows the pressure value, POS or NEG room mode and an alarm delay for door entry. The Lite is accurate and reliable, whilst also being cost-effective and simple to install. It integrates perfectly with the Setra FLEX.

2. **The 267 Very Low Differential Pressure Transducer** is a high accuracy, low differential pressure transducer. It delivers accuracies of ±0.25%, 0.4%, 0.5% and ±1% FS and pressure ranges from 0.1" W.C. up to 100" W.C. The material and installation costs are reduced when using the model 267 as it has a NEMA 4 rated enclosure and has an optional static pressure probe. The 267 is a reliable product that can be offered with fast delivery and is very competitive on price.

3. **The RFO Rotorflow Flow Monitor** is a combination of high visibility rotors and solid-state electronics that are compacted into panel mounting housings. The RFO provides accurate flow rate output which is perfect for a hot aisle containment application. The RFO offers an unprecedented price/performance ratio.
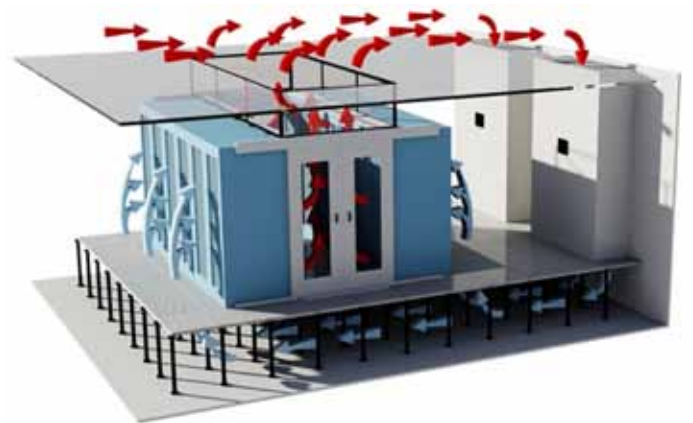
Power Meters

Our new Power Meter is a networked revenue grade power meter built on a versatile and powerful platform designed to meet the high demands for any submetering application. Available in a 3, 12 or 48 load configuration, the meter enclosure and intuitive web portal interface significantly reduce installation time and cost per metering point.

Centred around years of engineering, development and customer feedback, we have produced a complete solution to stage as an upgrade for any application where power monitoring is required.

Networked Multi-Load Power Meter

- Easy installation and configuration
- Field Selectable Communication (5-In-1)
- Multi-Load Monitoring and Data Logging
- Safe Access without PPE

1. Model		2. Loads		3. Communication		4. Display	
SPM	Power Meter	03	3 Loads	E	Ethernet & Serial	D	On-Board Display
		12	12 Loads				
		48	48 Loads				
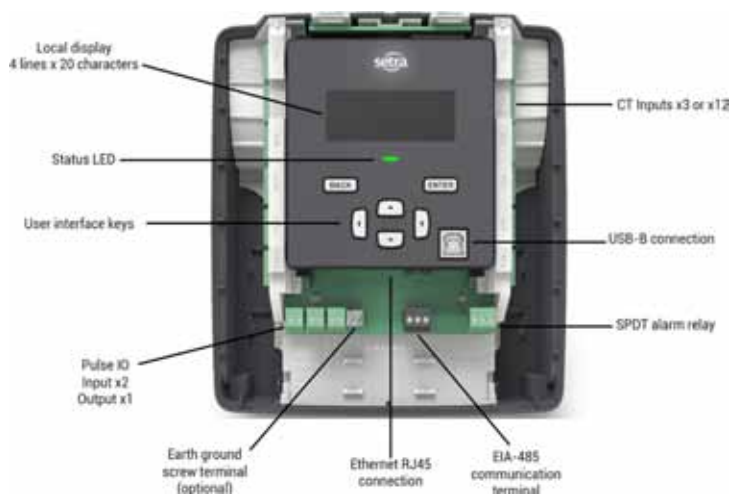
3 or 12 Load Meter
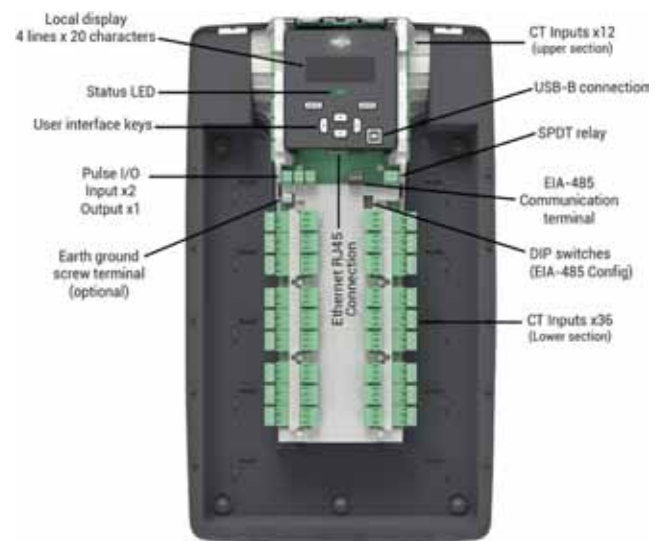
48 Load Meter

QuickStart Software and Web Portal

The QuickStart Software (available for free download) allows you to easily connect the meter into your PC, complete the setup to your desired configuration and upload the settings directly to the meter.

The Web Portal solution allows you to login online and access real-time data and make live changes to your power meters configuration.

EASY USB CONFIGURATION 1	**FIELD SELECTABLE CT'S 2**	**5-IN-1 COMMUNICATIONS 3**
Quick start, clone feature settings and configure anywhere.	Rogowski Coil and Split-Core CT compatible.	Increased flexibility and eliminates ordering mistakes.
DATA LOGGING 4	**BROADBAND LINE POWER 5**	**REVENUE GRADE ACCURACY 6**
62 Days of data at 5 min intervals, backed up and end-user accessible.	80-600 VAC powered, dual-voltage inputs and self-powered (Vin1).	ANSI 12.20 Class 0.2 to revenue grade standards.

Products in Focus

Installation Flexibility

Every Power Meter was painstakingly designed to simplify installation. The enclosure of the power meter is its own NEMA 1 rated electrical enclosure, eliminating the need to purchase an electrical panel for the job. The field rotatable display allows the installer to put the conduit holes exactly where they need to be for any mounting configuration, even in the tightest locations in the electrical room.

Built on Customer Feedback

All of the features on the new power meter have been centred around years of valued customer feedback. Comparing our old power meter models to the new, we are offering one of the most advanced power meters available on the market.

Old Power Meters	Features	New Power Meter
✘	Data Logging	✔
✘	Installation	✔
✘	Power Odometer	✔
✘	UL Listed Enclosure	✔
✘	Rotatable Display (Conduit Flexibility)	✔
✘	IP40 High Voltage Cover	✔
✘	Intuitive Web Portal Configuration	✔

Why Pay for Hidden Costs?

Our power meter incorporates fused leads, an IP40 rated electrical enclosure and suitable panel mounting to eliminate any hidden associated installation costs.

When compared to leading competitor brands, our power meter solution is overall one of the most cost-effective solutions available.

Our Power Meter	Expense	Leading Competitors
$$	Submeter	$$
$	Current Transformers	$
$0	Fused Leads	$$$
$0	Enclosure	$$
$0	Labor for Assembly	$

T: 01452 330011 | info@boiswood.co.uk | www.boiswood.co.uk

Patrol Flex Rogowksi Coil

Offered in 12", 24" and 36" lengths, the Patrol Flex is the most accurate Rogowski Coil in submetering. Rogowski Coils offer significant installation advantages over split-core CTs because of their lightweight, wide current range, mechanical flexibility for mounting in tight quarters and easy placement around cable bundles and busbars. The Patrol Flex leads can be extended up to 300" without degrading the accuracy of the unit. The Patrol Flex is calibrated to be better than 0.5% accuracy for use in revenue grade applications.

BEST IN CLASS LINEARITY

Conventional CTs are wound over a magnetic iron core, which makes them more susceptible to saturation leading to linearity error. Engineers and contractors must adjust the phase shift of the meter to compensate in order to achieve an accurate reading. Rogowski Coils are wound over a non-magnetic core, giving them perfect linearity and improved accuracy over wide current ranges.

INSTALLATION SAVINGS

Installers can save significant time and labour using the Patrol flex due to its flexibility and ease of surrounding conductors of all sizes. Selecting a Rogowski Coil instead of a conventional split-core CT can save the installer over two hours per metering point in a challenging installation, which could be the difference between making and losing money on a job.

WIDE CURRENT RANGE

The Patrol Flex has a current range of 5 – 5,000A yet weights less than 0.5Lbs, drastically reducing shipping costs. A typical 100A CT weights 2Lbs, however as the current range expands to 3000A, the average weight can increase from 2Lbs to 20Lbs. Considering three CTs are required to a monitor a 3-Phase motor, certain applications could require up to 65Lbs of shipping weight per metering point.

Advantages:
- High Accuracy: ±0.5% FS
- Lightweight: <0.5Lbs
- Minimal Linearity Effect: ±0.2%

Advantages:
- Easy Installation
- 3 Sizes (12", 24" and 36")

Advantages:
- Reduce Inventory
- Reduce Costs

Products in Focus

Model	MRC	MRG	230	231	231RS	239
Description	Multi-Range Critical DP Transducer	Multi-Range General DP Transducer	Wet-to-Wet DP Transducer	Multi-Configurable Wet-to-Wet DP Transducer	Multi-Configurable Wet-to-Wet DP Transducer	High Accuracy LowDP Transducer
Sample Applications	BMS Systems, Hospitals, Isolation Rooms, Vivariums	BMS Systems, Hospitals, Isolation Rooms, Vivariums	BMS Systems, Energy Management, Process Control, Filter Monitoring	BMS Systems, Energy Management, Process Control, Filter Monitoring	BMS Systems, Energy Management, Process Control, Filter Monitoring	Leak Detection, Filter Monitoring, Cleanrooms, Exhaust Pressure
Key Features	Field-Selectable Range and Output 4-Digit LCD Simple 5-Step Setup Push-Button Zero and Span	Field-Selectable Range and Output 4-Digit LCD Simple 5-Step Setup Push-Button Zero and Span	Single Diaphragm All Stainless Steel NEMA 4 Rated Low Line Pressure Effect Fast Response Time	Optional LCD Display Field-Selectable Range and Output Hinged Cover Push-Button Zero and Span	Remote Design Field-Selectable Range and Output Cuts Labour Costs Push-Button Zero and Span	Fast Response Time Low Thermal Error Small Footprint Captures Dynamic Pressure Changes
Pressure Type	Differential (Unidirectional/ Bidirectional)	Differential (Unidirectional/ Bidirectional)	Differential (Unidirectional/ Bidirectional)	Differential (Unidirectional/ Bidirectional)	Differential (Unidirectional/ Bidirectional)	Differential (Unidirectional/ Bidirectional)
Pressure Ranges (Showing Min/Max Ranges)	0.1" WC, 0.25" WC, 25 Pa, 50 Pa (Field Selectable)	0.5" WC, 1.0" WC, 2.5" WC, 5.0" WC, 100 Pa, 250 Pa, 500 Pa, 1,000 Pa (Field Selectable)	-50 to +100 PSI	5, 10, 25, 50 PSI (1) 10, 20, 50, 100 PSI (2) 25, 50, 125, 250 PSI (3) (Field Selectable – 1 Option)	5, 10, 25, 50 PSI (1) 7.5, 15, 37.5, 75 PSI (2) 10, 20, 50, 100 PSI (3) 15, 30, 75, 150 PSI (4) 25, 50, 125, 250 PSI (5) (Field Selectable – 1 Option)	15 to +30" WC -2.5 to +10 PSID ±7,500 Pa -35 to +70 kPa
Accuracy	±0.5% FS	±1.0% FS	±0.25% FS	±1.0% FS	±1.0% FS	±0.14% FS ±0.073% FS
Operating Temperature Range	0 to +50°C	0 to +50°C	-18 to +80°C	-20 to +85°C	-20 to +85°C	-18 to +80°C
Output	0 to 5 V 0 to 10 V 4 – 20 mA (Field Selectable)	0 to 5 V 0 to 10 V 4 – 20 mA (Field Selectable)	0 to 5 V 0 to 10 V 4 – 20 mA	4 – 20 mA	0 to 5 V 0 to 10 V 1 to 5 V 4 – 20 mA (Field Selectable)	0 to 5 V 1 to 5 V 1 to 6 V 0 to 10 V
Electrical Terminations	1/2" Conduit PG9 Strain Relief	1/2" Conduit PG9 Strain Relief	Barrier Strip Terminal Block with Conduit Enclosure	1/2" Conduit	1/2" Conduit Cable Version Armour Jacket Version	Cable Version 30 GA 9-Conductor
Pressure Fittings	3/16" Barbed Brass	3/16" Barbed Brass	1/4" Female NPT 3-Valve Manifold 5-Valve Manifold	1/8" Female NPT 3-Valve Manifold 5-Valve Manifold	1/4" NPT	1/8" Female NPT
Other Configurations	Base Mount Universal DIN Rail Duct Probe	Base Mount Universal DIN Rail Duct Probe	Viton® Seals Buna-N Seals	With LCD Display Without LCD Display	With LCD Display Without LCD Display	Special Excitation Remote Calibration Oxygen Cleaning

*For special options not listed please contact us.

Model	264	265	267	269	AXD	256
Description	Cost-Effective Low DP Transducer	Cost-Effective Low DP Transducer	Very LowDP Transducer	Secure-Sense™ LowDP Transducer	Industrial Pressure Transducer	Rugged NEMA 4 Pressure Transducer
Sample Applications	HVAC/R Systems, Energy Management, VAV & AHU Control, Lab & Fume Hood	HVAC/R Systems, Energy Management, VAV & AHU Control Static Ducts	HVAC/R Systems, Energy Management, Static Ducts, Furnace Draft, Oven Pressurisation	HVAC/R Systems, Laboratories, Pharmaceutical	HVAC/R Systems, Fuel Cell OEMs, Industrial OEM, Hydraulic Systems, Compressors,	Process Control, Chemical Control, Pipeline Monitoring
Key Features	3 Year Unconditional Warranty Minimal Installation Time Fire Retardant Case Reverse Wiring Protection	Excellent Price to Performance Ratio Reduces Installation Costs Internal Regulation Reverse Wiring Protection	Optional LCD Display NEMA 4 Rated Range of Accuracies Range of Electrical Terminations Suitable for Harsh Environments	High Accuracy Reduced Calibration TimeSecure Calibration (Required Security)Enhanced Thermal Performance	High Accuracy High Overpressure IP67 Rated Non-Oil Filled Design Long Term Stability Small Footprint Exceptional EMI/RFI	Low Cost High Accuracy NEMA 4/IP65 Rated Wide Temperature Range Corrosive Resistant
Pressure Type	Differential (Unidirectional/ Bidirectional)	Differential (Unidirectional/ Bidirectional)	Differential (Unidirectional/ Bidirectional)	Differential (Unidirectional/ Bidirectional)	Gauge, Compound, Sealed, Vacuum	Gauge
Pressure Ranges (Showing Min/Max Ranges)	-0.05 to +100" WC -25 to +1000 Pa	-0.1 to +100" WC -25 to +1,000 Pa	-0.1 to +100" WC ±7,500 Pa	-0.05 to +10" WC -15 Pa to +2.5 kPa	0 to 10,000 PSI 0 to -14.7 PSI 40 to 700 mBAR	0 to 10,000 PSI
Accuracy	±1% FS ±0.4% FS ±0.25% FS	±1% FS ±0.4% FS ±0.25% FS	±1% FS ±0.4% FS ±0.25% FS	±1% FS ±0.4% FS ±0.25% FS	±0.25% FS	±0.13% FS (at >25 PSI) ±0.25% FS (at <25 PSI)
Operating Temperature Range	-18 to +79°C	-18 to +65°C	-18 to +65°C	-20 to +160°C	-40 to +125°C	-40 to +85°C
Output	4 – 20 mA 0 to 5 VDC	4 – 20 mA 0 to 5 V 0 to 10 V	4 – 20 mA 0 to 5 V 0 to 10 V	4 – 20 mA	4 – 20 mA 0.5 – 5.5 V 0.5 to 10.5 V 0.5 to 4.5 V	4 – 20 mA 0.1 – 5.1 V
Electrical Terminations	Terminal Strip 1/2" Conduit	Terminal Strip 1/2" Conduit	PG-13.5 Strain Relief PG9 Strain Relief 9-PIN D-Sub 1/2" Conduit	Terminal Strip	Cable Version 3-PIN Packard M12 4-PIN 1/2" Conduit	1/2" Conduit
Pressure Fittings	3/16" Barbed Brass	1/4" Fitting	3/16" Barbed Brass 1/4" Female NPT Static Duct Probe	3/16" Barbed Brass	1/4" Male NPT 1/8" Male NPT 7/16" SAE Ext	1/4" Male NPT
Other Configurations	With Cal Cert Without Cal Cert	With Cal Cert Without Cal Cert	With LCD Display Without LCD Display MODBus Optional	2:1 Turndown Ratio Base Mount DIN Rail LCD Display	11-Point Cal Cert High Overpressure Pressure Restrictor Clean for Oxygen	With Cal Cert Without Cal Cert

Product images are not shown to scale

Products in Focus

Model	FLEX	LITE	SRPM	SRCM	SRIM2	SRMD
Description	Environmental Monitor	Visual Pressure Indicator	Room Pressure Monitor	Room Condition Monitor	Room Isolation Monitor	Room Monitoring Displays
Sample Applications	Hospitals (ASHRAE), Pharmacies (USP), Server Rooms, Data Centres	Hospitals, HVAC/R Systems, Data Centres, Pharma Facilities	Hospitals, Pharma Facilities, Vivariums	Hospitals, Pharma Facilities, Vivariums, Cleanrooms	Hospitals, Operating Theatres, Isolation Rooms, Cleanrooms	Hospitals, Operating Theatres, Pharma Facilities Cleanrooms
Key Features	Monitor and Control Up to 3 Spaces 6 Parameters Per Room (18 in Total) Integrates with BMS ASHRAE and USP Approved	Saves Preventive Maintenance Sleek and Attractive Wallplate User-Friendly Configuration	Easy Surface Mounting Setup One Requires Zeroing Once on Install Industry Best Accuracy	Monitor up to 4 Parameters Reduce Installation Time User-Friendly Configuration	Removable Faceplate for Easy Calibration Flush Mount and Surface Mount Dead-Ended On-Board Sensor	Single or Dual Display Fits into standard Electrical Gang Box Easy to Read from Up to 30'
Unit Type	Monitor or Controller	Monitor	Monitor	Monitor	Monitor	Monitor
Pressure Ranges (Showing Min/Max Ranges)	±0.05 to ±1.00" WC ±12.5 to ±250 Pa (Also Available without any On-Board Sensor)	±0.25 to ±1" WC ±50 to ±250 Pa	±0.1 to ±5" WC	±0.05 to ±5" WC ±12.5 to ±1,000 Pa	-0.05 to +5" WC -12.5 to +2,500 Pa (Unidirectional/ Bidirectional)	N/A
Accuracy	±0.25% FS	±0.5% FS	±0.5% FS ±0.25% FS	±0.5% FS ±0.25% FS	±1% FS ±0.5% FS ±0.25% FS	±1% FS
Operating Temperature Range	0 to +50°C	0 to +50°C	0 to +50°C	0 to +50°C	-6 to +60°C	-10 to +50°C
Display	7" Touchscreen (Usable with Medical Gloves	LED Touchscreen with Light Ring	LCD Colour Touchscreen	LCD Colour Touchscreen	3-Colour Display with Push Buttons	1" Illuminated LCD Characters (RGB)
Parameters	Pressure, Temperature, Velocity, Door Sensor, Particle Sensing, Humidiity	Pressure	Pressure, Door Sensor	Pressure, Temperature, Humidity, User-Defined (e.g. ACH)	Pressure, Temperature, Relative Humidity, Door Sensor	Any
Output (Consult for full details)	0 to 5 V 0 to 10 V 4 – 20 mA	0 to 5 V 0 to 10 V 4 – 20 mA	0 to 5 V 0 to 10 V 4 – 20 mA	0 to 5 V 0 to 10 V 4 – 20 mA	0 to 5 V 0 to 10 V 4 – 20 mA	0 to 5 V 0 to 10 V
Communications	BACnet® IP BACnet® MS/TP	N/A	BACnet®	BACnet®	N/A	N/A
Pressure Fittings	3/16" Barbed Brass	3/16" Barbed Brass	3/16" Barbed Brass	3/16" Barbed Brass	3/16" Barbed Brass	N/A
Other Configurations	Pressure Snubbers	Inside Room Option Audible Alarm	Higher Accuracy	Pressure Snubbers Blank Faceplate	Wall or Duct Mount Stainless Steel Bezel Blank Faceplate Pressure Snubbers	Metallic Bezel R, G, or B Display

For special options not listed please contact us.

Model	3100/3200	3500	2200/2600	4000	5000	6700
Description	Compact OEM Pressure Transducers	Compact OEM Low Pressure Transducers	General Purpose Pressure Transducers	High Performance Pressure Transducers	Low Pressure Transducer	High Stability Pressure Transducer
Sample Applications	OEM Applications, Hydraulics,					
Key Features	Cost Effective High Proof Pressures Broad Choice of Configurations RoHS Complaint	Cost Effective Low Pressure Ranges Broad Choice of Configurations High Reliability and Stability	Submersible & Wash Down Enclosures High Stability CVD Sensing Element Broad Choice of Configurations	Long Term Stability Sputtered Thin Film Sensing Element Submersible, High Temp and Weather Proof Versions	High Proof Pressures Robust Case Construction Submersible and General Purpose Versions	High Stability Sputtered Thin Film Sensing Element Submersible and Wash Down Enclosures
Pressure Type	Gauge and Sealed	Gauge, Absolute and Compound	Gauge, Absolute, Compound and Vacuum	Gauge, Absolute, Sealed and Differential	Gauge	Gauge and Absolute
Pressure Ranges (Showing Min/Max Ranges)	100 to 25,000 PSI 7 to 1,600 BAR	-15 to 600 PSI -1 to +40 BAR	-15 to +6,000 PSI -1 to +400 BAR	0 to 10,000 PSI 0 to 690 BAR	10 to 415" WC 25 to 1,000 mBAR 0.36 to 15 PSI	0 to 6,000 PSI 0 to 400 BAR
Accuracy	0.25% FS	0.25% FS	0.25% FS 0.15% FS	0.10% 0.08%	0.25% FS	0.15% FS
Operating Temperature Range	-40 to +125°C	-40 to +125°C	-40 to +125°C (Termination Dependant)	-54 to +135°C (Termination Dependant)	-40 to +100°C (Termination Dependant)	-30 to +100°C (Termination Dependant)
Output	4 – 20 mA 0 to 5 V 0 to 10 V 1 – 6 V 1 – 5 V 0.5 – 4.5 V (Ratiometric)	4 – 20 mA 0 to 5 V 0 to 10 V 1 – 6 V 1 – 5 V 0.5 – 4.5 V (Ratiometric)	100 mV 4 – 20 mA 0 to 5 V 0 to 10 V 1 – 6 V 1 – 5 V 0.5 – 5.5 V 0.2 – 10.2 V 0.1 – 5.1 V	30 mV	4 – 20 mA 0 to 5 V 1 – 6 V 1 – 5 V 0.1 – 5.1 V 0.5 – 5.5 V	4 – 20 mA (Undamped)
Electrical Terminations	Industrial DIN 9.4mm M12 x 1P (4-PIN) Cable Version Large DIN (43650A) ½" NPT Male Conduit Amp Superseal 1.5 Deutsch DT04-4P Packard MetriPack	Industrial DIN 9.4mm M12 x 1P (4-PIN) Large DIN (43650A) Industrial DIN Deutsch DT04-4P Packard MetriPack	4-PIN Micro DIN NEMA 4 Cable European Cable IP67 Cable Large DIN (43650) Imersible Cable IP68 ½" Conduit	10-6 Bayonet Plug IP66 Cable Immersible Cable IP68	Large DIN (43650) M12 x 1 (5-PIN) Immersible Cable IP68 ½" Conduit	10-6 Bayonet Plug Imersible Cable IP68 Large DIN (43650) M12 x 1 (5-PIN) ½" Conduit
Pressure Fittings	G1/4" External ¼" Male NPT 1/8" Male NPT 7/16" External (SAE) M14 x 1.5 Schrader SAE #4	G1/4" External ¼" Male NPT 1/8" Male NPT 7/16" External (SAE) M12 x 1.5 (6G) G1/8" External	G1/4" External ¼" Male NPT 1/8" Male NPT ½" Male NPT 7/16" External (SAE) Sink Weight Cone	G1/4" Internal G1/4" External ¼" Male NPT ½" Male NPT 7/16" External (UNJF) Sink Weight Cone	G1/4" External G1/4" Internal ¼" Male NPT KF25 Flange Sink Weight Cone 7/16" External (UNF)	G1/4" External G1/4" Internal ¼" Male NPT ½" Male NPT 7/16" External (UNF) Sink Weight Cone
Wetted Materials	17-4 PH SS	316L Stainless Steel	17-4 PH Stainless Steel	17-4 PH / 15-7 Mo SS Inconel®	318 Duplex SS	17-4 PH / 15-7 Mo SS
Other Configurations	With Restrictor Cal Certificates Oxygen Cleaning ATEX Available	With Restrictor Cal Certificates Oxygen Cleaning	Cal Certificates Oxygen Cleaning ATEX Available	Low Thermal Error Hastelloy Case for Seawater	Specific Calibration ATEX Available	ATEX Available Lloyds Register mBAR Range

Pressure Regulators, Self Acting Control Valves, Pressure Sensors & Switches, Safety Relief Valves, Gauges & Manometers

Flow Meters, Switches & Control Valves, Solenoid Valves, UHP & Cryogenic Valves, Excess Flow Valves, Filters, Strainers, Pumps & Mixers

Level Sensors, Indicators & Switches, Submersible Transducers, Float Valves, Bleeding & Venting Valves, Steam & Condensate Traps, Thermocouples

Tube, Pipe, Weld and UHP Fittings, Quick Connects, Instrumentation Valves, Bottle Connectors, Tubing, Piping & Flexible Hoses

Differential Pressure Sensors, Room Condition Monitors, Power Meters, Particle Counters, Humidity Sensors & Calibrators

Installation Training, Subassemblies, Valve Sizing, Servicing & Repairs, Site Surveys

Boiswood

GAS AND LIQUID CONTROL TECHNOLOGIES

Spinnaker House, Hempsted Lane, Gloucester, GL2 5FD
Tel: 01452 330011 Fax: 01452 330088 info@boiswood.co.uk
www.boiswood.co.uk

INVESTORS IN PEOPLE

ISO