SENTINEL II

ONE AND TWO CHANNEL GAS MONITORING SYSTEM

SCOTT®
HEALTH & SAFETY

SENTINEL II MONITORING

FOR COMBUSTIBLE GASES

Detection Just Got Easier

The Series 7200 Sentinel II area monitormakes monitoring for combustible gases as easy as 1-2-3. The Sentinel II has been designed for everyday gas monitoring by everyday people.

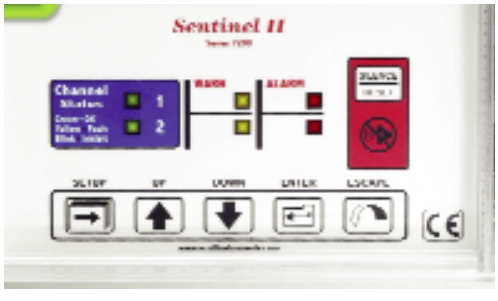
Simplicity in a Box

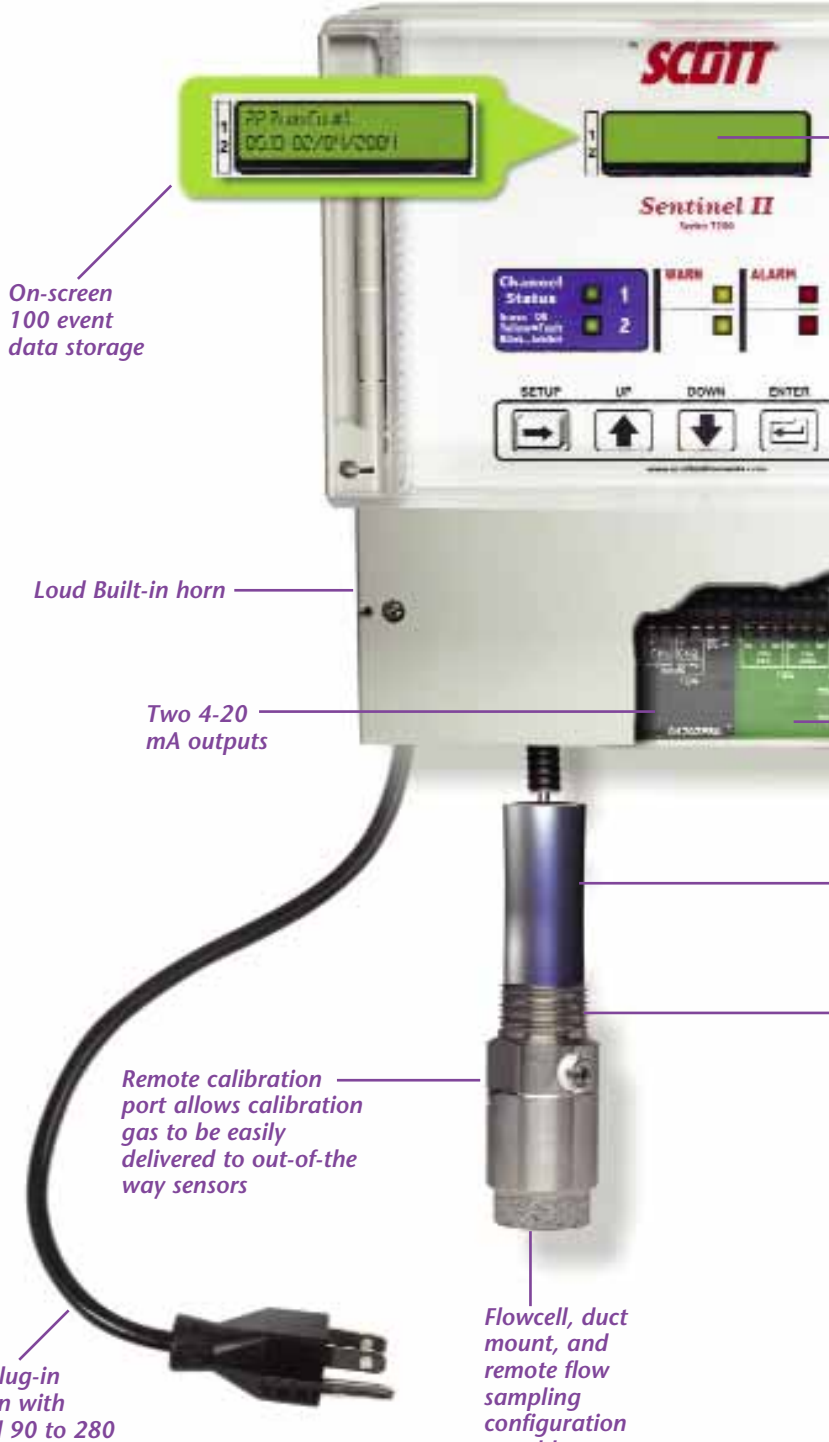
Just connect any combination of the Sentinel II combustible sensors and plug in the receiver - its that simple. Sensors can then be located up to 3,000 feet faway from the wall-mounted monitor that is protected against corrosion, wind, rain, and ice in a NEMA-4X outdoor enclosure. Auxiliary safety/annunciator devices

such as an additional horn or strobe light can be wired into each channel's individual High/Low alarm relays. The Sentinel II's 90 to 280 vac power supply means electrical operation is globally universal.

Easy-to-Operate Features

The Sentinel II's operation is designed around simplicity. Each gas channel's status is continuously displayed on the backlit LCD. Bright LEDs indicate warn and alarm status while a built-in 85db horn is triggered should an alarm occur.





SYSTEM

Each channel displayed individually

User defined relay configuration

Powerful Gelcell Battery Backup

Conduit (customer supplied)

Rugged, field-proven combustible sensor for up to 3000 ft separation

Flexible Alarms and Relays

It may be simple but Sentinel II still has all the flexible features you need to alert personnel of alarm or fail conditions while activating external devices such as exhaust fans, flashing lights etc. Alarm levels can be adjusted via the front panel push buttons and each channel has an individual high and low alarm relay and a common horn and fail relay. Relay operation is user-adjustable and can operate as failsafe/non-failsafe and manual reset/automatic reset.

Sensor Technology

The heart of any good gas detection system is the sensor. At Scott Health and Safety, we design, engineer, manufacture, and test our own toxic and combustible sensors. What does that mean to you? Simple - we know gas detection inside and out. Our team of research scientists work everyday to make the most reliable, consistent, and selective gas sensors available.

Rugged, Field-Proven Combustible Sensors

Scott combustible sensors have been in use for years and in thousands of installations. They are simply the best, most durable catalytic beads available. Our in-house manufacturing process and quality control helps ensure sensors operate with the consistency, stability, and reliability that customers, such as the world's largest oil refineries, rely upon.

ON SCREEN DATA LOGGING

Scott's Sentinel II processes a data logging capability that allows the instrument's monitoring history to be recorded for analysis to identify potential hazards in a facility's processes or procedures. Since many environmental conditions change over long periods of time and for those instances when no one is present, the data logger in the Sentinel II will allow data to be collected on a 24-hour, around-the-clock basis. This provides continuous monitoring at times when workers are not available or in remote areas of a facility, thus providing more accurate record of a facility's overall environment.

The data collected by the Sentinel II can be viewed and analyzed to aid in determining if safety levels were breached, to identify processes that may cause combustible gas levels to increase, or discover spikes or valleys in normal environmental operations. The Sentinel II's on-screen data logging automatically stores the last 100 events and can be viewed on the unit's reliable, easy to read LCD screen.

SPECIFICATIONS

SENTINEL II ONE AND TWO CHANNEL GAS MONITORING SYSTEM

User Interface/Control Panel
Single front control panel with membrane push buttons, LED indicators, and a translucent section to allow viewing of the digital display.

LED Indicators
Dual color green/yellow LEDs indicate channel status OK/fault. Separate yellow "Warn" LEDs, and red "Alarm" LEDs for each channel.

Display
LCD digital type, 2 lines x 16 alphanumeric characters, with backlight.

Power Supply
Input is 90 to 280 VAC, 50/60Hz

Output
4-20mA analog output per channel. Maximum impedance 700 ohms

Alarm Relays
Standard SPDT 5A@30VDC/277VAC. (1) Low alarm relay and (1) high alarm relay for each channel. A common fail relay and common horn relay is on each unit. (**Relay logic is configurable by the user for N.O., N.C., latching, non-latching and which channel it is associated with. Fail-safe relay is energized with power on only). User "Set Delay" adjustable 0-10 seconds, "Reset Delay" adjustable 0-6000 seconds. Remote horn and relay silence/reset connection provided.

Audible Horn
Integral piezo with an approximate sound level of 85 db @ 3 feet with the enclosure door closed.

Input/Communication Details
Combustible: 3 wire 14 AWG stranded shielded cable with PVC jacket

I/O Connections
Physical connections to all unit inputs via single in-line one-piece terminal blocks.

Environmental Operating Conditions
Electronics: – 40° to 122°F (-40° to +50°C)
Except the LCD, limited at the low end to – 10°C).

Combustible Sensors: (5.5 V) -40° to +392°F (-40 to 200°C) (6.0 V) -40° F to 200° F (-40 to 93°C)

Accuracy
+/- 2% accuracy of the applied signal.

Repeatability
+/-1%

Weight
4 lbs [1.8 Kg]

Warranty
1 year

Approvals
Enclosure: UL General

Enclosure
NEMA-4X wall mount.
9"W x 9.3" H x 5.38" D
[23cm x23.5 cm x 13.7cm]

Sensor Housing

Combustible	3/4" NPT Male fitting
	316 SS with 7" leads

Typical Specifications
Available for download at **www.scotthealthsafety.com**

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