General Questions:

Q. What is new with the OnGuard Smart?

Room pressure measurements and Wi-Fi communications to a network.

Q. Why do I need a corrosion monitor?

To monitor an environment for potential reliability issues.

Q. Will the OnGuard 3000 still be available for purchase?

The 3000 is no longer available.

Q. How many days of data can be logged in the unit?

Depending on the logger setting form 2 weeks to 6 months.

Q. What is the value of having a pressure sensor?

Positive pressure is a key to a room's ability to deter corrosion and avoid reliability issues.

Q. To which ISA Standard is the device calibrated?

IAS-S71.2013

Q. Can I get alerts when a measurement gets to a certain threshold?

The OnGuard Smart has set able alarms for Copper, Silver, Temperature, Relative Humidity and Pressure.

Q. What are the different methods by which the unit can be powered?

The OnGuard Smart can be powered by batteries (4 AAs), POE (power over Ethernet) and 25v DC.

Q. What are the different methods by which I can view the data?

Data can be viewed locally with the LCD, on a network with a computer or through a DCS (distributed control system) or BMS (building management system).

Q. How many OnGuard Smart devices do I need per facility?

One OnGuard Smart is suggested for each AHU (air handling unit).

Installation and Operation:

Q. How do I connect to Wi-Fi?

Detailed instructions are available on Page 19 of the Manual or the OnGuard Smart Tutorial Video.

Q. Does the unit use battery power when connected tow Wi-Fi?

Battery power is not suggested when the OnGuard Smart is connected to a network by Wi-Fi or cable due to power consumption. Power Over Ethernet (POE) is suggested for directed connections and 24v DC is suggest when Wi-Fi is used.

Q. How do I connect to the facility Distributed Control System (DCS).

Detailed instructions are available on Page 28 of the Manual or the OnGuard Smart Tutorial Video.

Q. Is this unit compatible with standard building systems protocols (BACNet, Modbus, etc.)?

Communication with the OnGuard Smart is currently only available through a Distributed Control System using analog (4-20 mA) connection.

Q. How do I view the data in the logger?

Connect to the OnGuard Smart and go to the Logger Tab. Detailed instructions are available on page 23 of the manual.

Q. How do I set up email alerts?

Connect to the OnGuard Smart and go to the Network Tap. Detailed instructions are available on page 25 of the manual.

Q. What is the ideal location to place the monitor?

The OnGuard Smart should be located near the most critical equipment in the control room.

Q. Can I export the data in the logger? If so, how?

Connect to the OnGuard Smart and go to the Logger Tab. Detailed instructions are available on page 23 of the manual.

Troubleshooting:

Q. The battery gets exhausted very quickly.

Logger is set for 1 minute, increase logger interval for longer battery life.

Q. How do I get spare parts for the OnGuard?

Contact Purafil at Purafil.com/contact or +1 770.662.8545

Q. What is the calibration process for the silver and copper sensor?

The copper or silver sensors do not require calibration, they are factory calibrated.

Q. The email alter feature is not working.

Connect to the OnGuard Smart and go to the Email Settings Tap (see manual page 26) and check address settings.

Q. How do I modify the ISA Standard set for the device?

The ISA Standard settings are factory set and cannot be modified.

Q. Which web browsers are compatible with the OnGuard Smart?

The OnGuard Smart is compatible with IE, Google Chrome or Fox Fire. However the OnGuard Smart is optimized for Google Chrome.

Q. How do I know when I need to replace the sensor?

The OnGuard Smart will alarm locally when a sensor has failed.

Q. What if the installation requires a loop-powered transmitter?

The OnGuard Smart is not a loop-powered transmitter. The OnGuard Smart requires a standalone 24 VDC power supply.

Q. What if there are four AA batteries installed in the OnGuard Smart.

Remove the batteries; the OnGuard Smart will only transmit analog data if powered by a 24 VDC power supply.

Q. What if after wiring for power the lights do not come on?

Check the DC power supply for the proper voltage level, 12 to 36 VDC. Verify that the positive and ground leads are secured to the terminal block.

Q. What if there is no analog output?

Verify that the signal and ground wires are secured to the terminal block.

Q. What if the OnGuard Smart is hooked up to a DCS that is reporting unexpected values?

If the output channels are hooked up, eight wires must be secured in the proper positions on the terminal block. Verify the reading at the terminal block and compare them to the reported values on the DCS or BMS. If a discrepancy exists, the wiring is not correct.

Q. What if the cumulative corrosion fluctuates instead of continually increasing?

This occurrence is normal for the corrosion sensors. The sensors are extremely sensitive and even water vapor or microscopic dust particles will cause minor fluctuations in the readings. Control of temperature, relative humidity and vibrations will help minimize fluctuations. The scale selected to graphically display the data, if a narrow range, can also accentuate the fluctuations.

Q. What if the cumulative readings don't match the results of coupons in the same environment?

Be sure the coupons are placed as close to the OnGuard Smart as possible. The OnGuard Smart zeros out any existing corrosion on the sensors during initial power-up. Coupons as prepared per the ISA Standard (S71.04) generally have background reading from 50 to 150 angstroms. The coupon value should be corrected for background corrosion before making any comparisons.

Q. What if the OnGuard Smart has been moved to a new location and the corrosion values seem to have changed?

The OnGuard Smart is designed to be permanently mounted. Any shaking or jostling may affect the corrosion sensors. If the OnGuard Smart is moved, remount, wire and install new sensors.

Q. What if the unit is in a continuous alarm state?

Check the high and low levels for the temperature and relative humidity. The units are shipped with factory defaults, but these defaults are often changed when the owner has become familiar with the operation of the unit.

Also, check the incremental limits for copper and silver corrosion