

PRODUCT ROLL-OUT 4

ONGUARD® 3000

PURAFIL



FREQUENTLY ASKED QUESTIONS - FAQs

WHAT IS THE ONGUARD 3000?

The OnGuard 3000 Atmospheric Corrosion Monitor is an electronic instrument which provides real-time information on the amount of corrosion occurring due to the presence of gaseous pollutants in the subject environment. This device monitors corrosion on a continuous basis and calculates cumulative and incremental corrosion rates according to the standard classifications of the Instrument Society of America (ISA) S71.04-1985: "Environmental Conditions for Process Measurement and Control Systems: Airborne Contaminants."

WHAT ARE THE ONGUARD 3000 PRODUCT OFFERINGS?

There are currently two OnGuard 3000 product offerings: The OG3 Data Logger and The OG3 Transmitter. These offerings are described in detail below:

The OG3 Data Logger

The OnGuard 3000 Data Logger is battery-operated and does not have DC power requirements. This unit is designed to log data in your environment for a specific period of time. After this period of time is expired, the data logger unit can be connected to your PC using the USB Cable Kit (enclosed with the unit). To view the data on your PC, the OG3 Data Logger also comes with the OnGuard Data and Graphing Software which can be installed onto your computer.

The OG3 Transmitter

The OnGuard 3000 Transmitter uses DC power and connects directly to your DCS (Distributed Control System) for continuous corrosion data results and remote monitoring. The OnGuard 3000 Transmitter is compatible with all distributed control systems and data can be viewed using your DCS.

CAN I USE THE ONGUARD AS A PORTABLE MONITOR?

Yes, the OG3 Data Logger is essentially a "portable corrosion monitor". The LCD and keypad provide a direct user interface to all of the OnGuard 3000's functions.

WHAT IS THE PURPOSE OF THE ONGUARD 3000 TRANSMITTER?

The purpose of the OnGuard 3000 Transmitter version is to transmit real-time corrosion data to the distributed control system (DCS).

HOW IS THE OG3 DATA LOGGER LIKE THE OG3 TRANSMITTER?

Both the OG3 Data Logger and the OG3 Transmitter utilize copper and silver plated quartz crystal microbalance (QCM) sensors to measure environmental corrosion.

HOW IS THE OG3 DATA LOGGER DIFFERENT FROM THE OG3 TRANSMITTER?

The OG3 Data Logger is a stand-alone unit. Data from the OG3 Data Logger can be downloaded to a personal computer or accessed using the monitor's keypad. The OG3 Data Logger is also a digital, battery-operated unit. The OG3 Transmitter is an analog unit that communicates directly with the distributed control system (DCS) via four 4-20 mA transmitters.

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HOW MANY BATTERIES AND WHAT KIND OF BATTERIES DOES THE OG3 DATA LOGGER UNIT REQUIRE AND HOW LONG DO THE BATTERIES LAST?

The OG3 Data Logger Unit requires four (4) standard AA batteries and one (1) lithium battery (not included with unit). These typically last for one (1) year. To conserve energy, both the OG3 Data Logger and OG3 Transmitter LCD display goes to sleep and turns back on with a key press.

HOW DO YOU TURN ON THE UNIT?

To turn on the OG3 Data Logger unit, install four (4) standard AA batteries and one (1) lithium battery (not included with unit) and press the "Enter" button on the keypad. There is no set-up process.

To turn on the OG3 Transmitter unit, connect the monitor to your DCS with a transformer cable (not included with unit). There is no set-up process.

Both the OG3 Data Logger and OG3 Transmitter units require two (2) hours to acclimate to the environment before logging or transmitting of data.

HOW DO I MOUNT THE ONGUARD 3000?

The OnGuard 3000 is designed for mounting on a flat vertical surface. The unit can be mounted with screws to any appropriate surface. The unit can be used as a template when mounting.

Open the OnGuard 3000 by removing the two (2) screws on either side of the monitor. The screws must be taken out and set aside so that the cover will open freely. Hold the OnGuard 3000 in mounting position. Check the position with a level. Next, mark the vertical surface for drilling using a pencil inserted into each mounting hole. Anchors may be necessary for a secure attachment to masonry walls or wallboard. Drill screws into the wall and attached the back cover of the OnGuard 3000. Once this is set in place, you can set the front cover of the monitor in place and insert the screws on either side of the monitor.

DOES THE OG3 OFFER TEMPERATURE AND RELATIVE HUMIDITY READINGS?

Yes, both the OG3 Data Logger and OG3 Transmitter offer temperature and relative humidity readings. Both Celsius and Fahrenheit temperature scales are shown on the LCD screen.

CAN I INSTALL MY ONGUARD 3000 MONITOR OUTSIDE?

No, the OnGuard 3000 Monitor is not recommended for outdoor use.

HOW OFTEN DO YOU HAVE TO REPLACE THE SENSORS?

The replacement of the sensor(s) is required at 4000 angstroms of cumulative corrosion growth, or if the sensor(s) has been damaged, causing the Red LED to blink. A copper sensor in a G1 environment will last 13 months; a silver sensor will last 13 months.

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FREQUENTLY ASKED QUESTIONS - FAQs continued

HOW DO I KNOW WHEN IT IS TIME TO REPLACE THE SENSORS?

When the sensors have reached the maximum 4000 Angstroms of corrosion product build-up, the Red LED on the front of the unit will light up.

WHEN REPLACING SENSORS IN THE OG3 DATA LOGGER, DO YOU HAVE TO REMOVE THE BATTERIES?

No, you do not have to remove the batteries when replacing the sensors.

DO YOU HAVE TO RESET THE UNIT AFTER INSTALLING NEW SENSORS?

No, you do not have to reset the unit. You can use the keypad on the monitor to walk you through the steps of replacing sensors.

HOW DO I KNOW THAT THE ONGUARD 3000 IS WORKING PROPERLY?

The Green LED on the front of the monitor will be lit whenever the unit is in proper working condition. If you notice the Red LED is on, use the keypad on the monitor to determine where your problem may be.

WHAT ARE THE ADVANTAGES OF THE ONGUARD 3000 OVER OTHER CORROSION MONITORS?

The OnGuard's patented technology is specific to airborne corrosion and corresponds directly to ISA Standard S71.04-1985 for Classification of Environments and the guidelines proposed for Museum/Archive Environments. This is an advantage over other monitors, such as the Rohrbach Cosasco, which was originally developed as an infrastructure corrosion monitor.

The OnGuard 3000 is easier to maintain because the sensors offer a service life of 4000 angstroms, as opposed to other monitors which offer a sensor service life of only 1500 angstroms.

The OnGuard 3000 measures real-time incremental and cumulative corrosion data, which better enables users to detect corrosion peaks and proactively prevent damage to electrical controls.