

SURVEYOR PLUS™

Environmental Condition Monitor



Silver & Copper Corrosion Sensors



Features:

- **Corrosion Rate, Relative Humidity, Monitors Temperature, and Differential Pressure**
- **High-Sensitivity Corrosion Rate Measurement**
- **Corrosion Rate of Copper and Silver Sensors Corresponds to ISA Classification of Environments**
- **Digital and Analog Outputs**
- **Optional Datalogging**

The SURVEYOR PLUS™ is a multiparameter monitoring system providing constant surveillance of the environment and rapid detection of any deterioration that could result in damage to expensive equipment and valuable assets. Early detection of humid, high temperature, or corrosive conditions will permit corrective action to be taken before substantial damage occurs to sensitive computer and instrumentation systems or electrical equipment.

The system measures humidity, temperature, and the corrosive attack on two replaceable thin-film sensors. The corrosion rate is shown by indicator lights that

correspond to the ISA classification of environments (G1 through GX) for copper and silver.

Analog and/or digital outputs of corrosion, humidity and temperature information provides remote alarming, display and recording. The information may also be stored in the on-board data-logger, and accessed via PC software. The system can also be used as a high-sensitivity corrosion monitor for special applications.

The SURVEYOR PLUS™ is particularly useful for environmental monitoring in refineries, chemical plants, pulp and paper plants, control rooms, computer rooms, museums, and clean rooms.

Specifications:

Measured Parameters

- Corrosion: Two independent channels
- Corrosion Rate: Rate time period user selectable: 8-99 hrs.
- ISA Classification: G1 through GX
- Temperature: +32° F to +122° F or 0° C to +50° C
- Humidity: 10% to 95% RH
- Differential Pressure:
 - Optional differential pressure transmitter range
 - Standard Resolution 0-2 i.w.g. range with 0.1" resolution
 - Higher Resolution 0-0.5 i.w.g. range with 0.01" resolution

Sensors

2,500 Å nominal span (life). One copper and one silver provided with instrument. Other materials available by special order.

Displays

LCD display of corrosion and corrosion rate for each channel, humidity, temperature, and room loss differential pressure. LED indicators corresponding to ISA environmental classifications.

Alarms

Corrosion rate (2 channels), low temperature, high temperature, low RH, high RH, differential pressure, ISA environmental classification (2 channels).

Outputs

- Analog: Five 4-20 mA outputs (current sinking or current sourcing) user assignable to desired parameters.
- Digital: RS-232 or RS-485 serial output of all nine measured and calculated parameters. Multiple units can be connected on RS485 multi-drop (daisy chain). Contact factory for information concerning real time monitoring software.

Datalogging

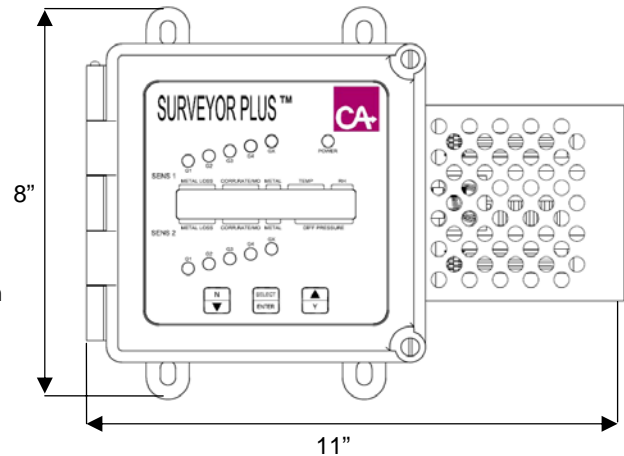
Internal datalogger accessed by software direct from PC.

Data Storage:

1725 Readings

Power Requirements

24 VDC, 0.4 amps.



- Operating Temperature Range: +32° F to +122° F or 0° C to +50° C
- Weight: 5 lbs. (2.3 kg)

Ordering Information:

| Model | Description |
|-------|--|
| | SURVEYOR PLUS™ |
| | Code Differential Pressure Transmitter |
| | 0 Without differential pressure transmitter |
| | 2 With differential pressure transmitter (0-0.5 i.w.g.) |
| | Code Data-logging Software |
| | 0 Without data-logging software |
| | 1 With data-logging software |
| | Code Power |
| | 24 Customer supplied 24 Volt DC |
| | 115 With 115 Volt wall transformer |
| | 230 With 230 Volt wall transformer |
| | — 2 — 1 — 24 ← Typical Order Number |

Recommended Accessories:

Test Sensor Kit – P/N 748321-Test sensor can be used in place of copper/silver sensors to determine if the ECM is functioning correctly, and/or if sensors are faulty or at the end of their life span.

| Replacement Sensors | | | |
|---------------------|-----------------|--------|-----------------|
| Copper | 610-TF50-C11000 | Iron | 610-TF50-K00095 |
| Silver | 610-TF50-P07010 | Nickel | 610-TF50-N02200 |



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