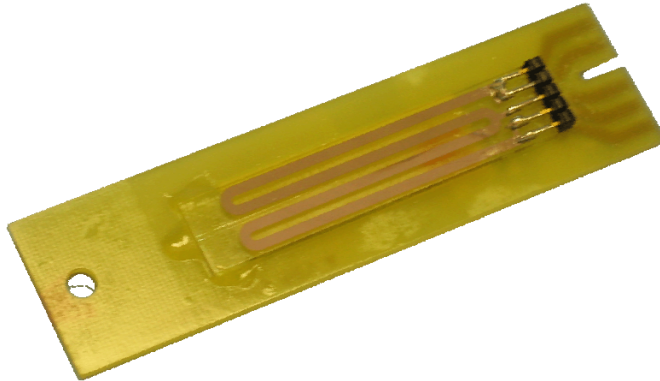


Model 610 High Sensitivity Atmospheric Corrosion Sensor



Features:

- **Accurately Measure Metal Loss of Less Than 10 Angstroms (Å)***
- **Quickly Detects Degradation of Air Filtration Systems**
- **Low Cost**
- **Compatible with Standard Corrosion Monitoring Instruments**
- **Available in Copper, Silver and Other Metals**

INTRODUCTION

The Model 610 Atmospheric Corrosion Sensor monitors the corrosivity of the air in plant control rooms, in motor control centers, near exhaust stacks and in other environmental monitoring applications. It is available in two ranges with spans of 250Å and 2500Å. Since an accurate corrosion rate measurement can be obtained after loss of less than one percent of the total sensor span, day-to-day measurements can be made even in mild to moderately corrosive environments.

The Instrument Society of America (ISA) has classified reactive environments by the corrosion rate of copper as follows:

G1 Mild.....	less than 300 Å/mo.
G2 Moderate.....	less than 1000 Å/mo.
G3 Harsh.....	less than 2000 Å/mo.
G4 Severe.....	greater than 2000 Å/mo.

APPLICATION

The increasing use of electronic and computer equipment in the heart of industrial process plants necessitates the use of environmental systems to control atmospheres and protect sensitive equipment. These environmental systems

regulate temperature and humidity and remove corrosive contaminants by the use of activated carbon filters. Loss of control of these parameters can cause corrosive deterioration of equipment.

The compact, lightweight Model 610 Atmospheric Corrosion Sensor can be mounted in equipment racks, ventilation ducts or in other desired locations. Connection to monitoring instruments is through a separate adaptor cable (see Accessories).

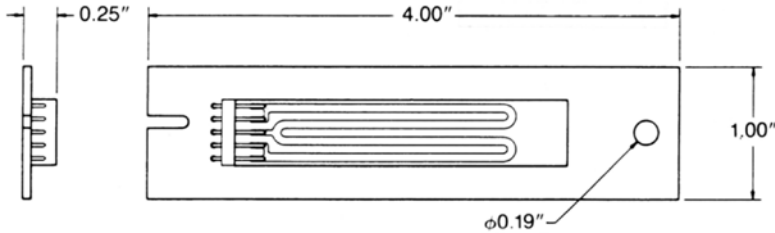
Activated carbon filters have a finite life for absorbing contaminants, depending on the quantity and frequency of contaminate exposure, which can vary greatly by location. In most operations, filters are routinely replaced once a year and replacement costs can vary from \$5000 to \$50,000. The Model 610 gives early indication of filter replacement without jeopardizing the safety of costly, sensitive equipment. Filter replacement is expensive and may be done prematurely without the use of a corrosion sensor.

*1 Angstrom (Å) - 0.000,000,01 cm or 0.000,000,0004 inch

Specifications:

- **Span:** Nominal = 2500 Angstroms (0.01 mil)
(Each Probe will be tested and labeled with its actual span)
- **Span Accuracy:** (vs. Nominal) + / - 25%
(vs. Label) + / - 10%
- **Unit Weight:** 0.1 lb / 0.05 kg

Dimensions:



Ordering Information:

Model	High Sensitivity Corrosion Sensor	
610	Complete Probe	
	Code	Sensor Span/Life
	TF50	2,500 Angstroms
	TF5	250 Angstroms (Copper only)
	Code	Sensor Materials
	C11000	Copper
	P07010	Silver
	N02200	Nickel
	K00095	Iron
610	TF50	C11000

← Example

Accessories:

Adaptor Cables for use with electronic measurement instruments:

Instrument	Cable Model No.
CK-3	CBL1-2-B-0-0-LL
4020LT	CBL1-2-B-0-0-LL
RCS-8	CBL1-2-2-0-0-LL
4104XT/4104WT	CBL1-2-1-0-0-LL
CK4 + CORRDATA®	CBL1-3-B-0-0-LL

LL = Length of cable in feet



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