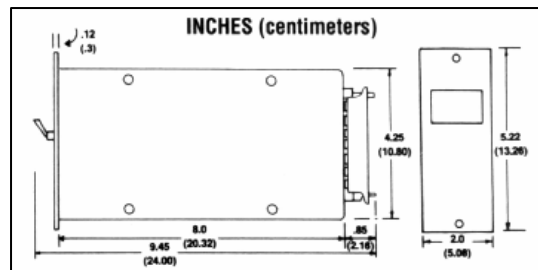
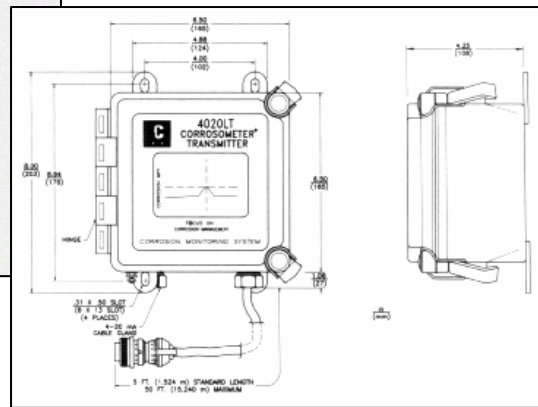
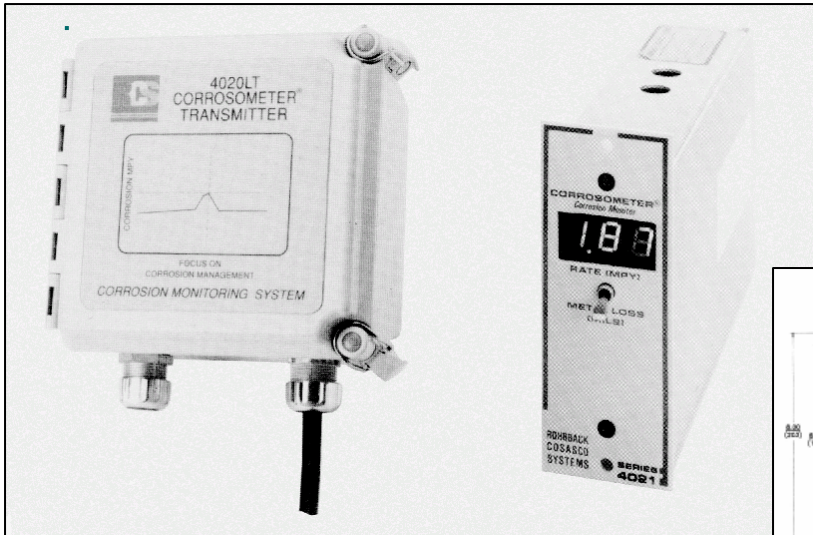


# Model 4001LT CORROSOMETER<sup>®</sup> System



## Features:

- **2-Wire Transmitter**
- **Intrinsically Safe**
- **Compatible with all Corrosometer Probes**
- **CE Compliant**
- **ATEX Compliant**

## Single Channel System

The Model 4001LT CORROSOMETER<sup>®</sup> transmitter and receiver system provides a single channel stand-alone system. The system incorporates the Model 4020LT two-wire transmitter and the Model 4021L receiver unit. The receiver unit is powered by 115 VAC or 230 VAC and provides the 24 VDC supply for powering the transmitter's 4-20 mA loop. In addition, the receiver processes the 4-20 mA signal to provide a direct digital readout of the cumulative metal loss and the CORROSOMETER<sup>®</sup> probe corrosion rate based on the last 48-hour monitoring period.

The Model 4020LT CORROSOMETER<sup>®</sup> transmitter is mounted close to the CORROSOMETER<sup>®</sup> probe. The transmitter has an integral 5-foot probe connection lead. Only a single twisted pair cable is required to connect the transmitter back to the receiver unit. The transmitter is approved intrinsically safe when used with the appropriate

safety barrier between the transmitter and receiver in the safe area, or non-incendive for use in Division 2, Zone 2, without a safety barrier.

The 4001LT system is particularly useful where a process monitoring computer is not available or accessible. The system is ideally suited for plants where the CORROSOMETER<sup>®</sup> probes are separated by large distances. Transmitter to receiver distances up to 10,000 ft. with safety barriers are possible.

Alternatively, the transmitter/receiver combination may be used in process computer based systems to provide additional indication of metal loss and corrosion rate independent of the computer.

The letters "LT" used in conjunction with this system indicates a linear 4-20 mA signal.

# Specifications:

## 4001LT SYSTEM

- **Input:** One CORROSOMETER® Probe
- **Maximum transmitter to receiver distance:** 10,000' (3,048 m)
- **Output:** Switch Selectable; 3-digit LED display; Metal loss mils or  $\mu$  m or Rate mpy or  $\mu$  mpy
- **Resolution:**  $\pm 0.1$  mpy or 0.01 mil
- **Voltage:** 115/230 50/60 Hz
- **Power Requirements:** 11 watts with max loop current

EEx ia IIC T4 – ATEX 94/9/EC \*

\*Requires the use of Safety barrier P/N 095776-5344 if *probe* or transmitter is in Class 1 Division 1 area or Zone 0 or Zone 1. Protection type "nC" permits the use of the transmitter without the safety barrier provided *probe* and *transmitter* are in class 1 Division 2, or Zone 2 area.

## 4020LT TRANSMITTER

- **Operation Temp:** -18° to +60° C (0° to +140° F)
- **Weight:** 9.25 lbs. (4.2 kg)
- **Size:** 5.75" x 5.75" x 6.94" (14.6cm x 14.6cm x 17.63cm)
- **Hazardous Area Certifications**  
UL/ULc Class 1, Zone 1, Ex and AEx ia IIC T4 for USA and Canada\*  
(UL/ULc Class 1, Div 1, Groups A,B,C,D, T4 for USA and Canada)\*

- **CE:** Complies with all applicable EU Product Directives: EMC Directive 89/336/EEC
- **ATEX:** Complies with all applicable EU Product Directives: ATEX Directive 94/9/EC

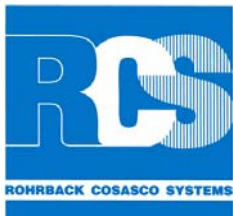
## 4021L RECEIVER

- **Operating Temp:** 0° to +50° C (+32° to +122° F)
- **Weight:** 2 lbs. (.9 kg)
- **Size:** 2" x 5.23" x 9.5" (5.1cm x 13.3cm x 24cm)
- **Panel cutout:** 2" x 4.3" (5.1cm x 10.9cm)

DEMKO Approved for Europe

# Ordering Information:

Model	Description														
4001LT	Corrosometer® Instrument System														
	<table border="1"> <thead> <tr> <th>Code</th> <th>Display Units</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><math>\mu</math> Meters = .001 mm</td> </tr> <tr> <td>2</td> <td>MILS = 0.001 in</td> </tr> </tbody> </table>	Code	Display Units	1	$\mu$ Meters = .001 mm	2	MILS = 0.001 in								
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4001LT — 2 — W — 10 — A — 230	Example														



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ISO 9001:2008  
 Certificate No. FM 10694