Corrosion Rate Sensor Specification Rev M

THIS SENSOR IS NOT COMPATIBLE WITH THE LOG-R ANALYZER

Body Style:	3/4" NPT ABT with A1200 body style
Cable Length/Connector:	10'/3 Meter, AWG22, 2 conductor cable, no connector
Maximum distance:	200 Feet/60 Meters. Use AWG22 to lengthen
Range:	0.00 to 10.0 MPY
Pressure/Temperature Range:	100 psi / 7 bar at 100°F / 38°C
Controller compatibility	MultiFlex, ProMtrac and Aegis

NOTE: Never include low voltage sensors in conduit that contains AC voltages.

Sensor Maintenance: If deposits on the electrode withstand cleaning with a soft, moistened cloth, the following cleaning agents may be used:

General deposits:	Non-abrasive household cleaner
Scale or metal hydroxides:	Diluted hydrochloric acid, 0.1 to 0.3% for 3 to 5 minutes
Oil, grease:	Alcohol
Bio-fouling:	Mixture of diluted hydrochloric acid and pepsin for several hours

Reproducible rate requires constant flow, typically 3 GPM / 12 LPM

Do not touch metallurgical pins with fingers

Not orientation limited.

Temperature ratings: 100 psi / 7 bar at 100°F / 38°C

Maximum distance: 200' / 61 meters

Cleaning:

Never touch tips with bare fingers. Oil will interfere with reading.

If sensor tips are rusted or corroded, scrape with screwdriver or knife. Polish with steel wool or plastic Scotch Brite (or similar). If tips are pitted, replace.

Corrosion Rate Sensor Specification Rev M

Corrosion rate sensors can be ordered in the following metallurgies:

	Sensor Assembly (Includes Tips)	Tips Only
K03005 Pipe Grade Carbon Steel 1.00	7760746	7760240
A91100 Aluminum 1100-0 0.94	Special order	
C11000 Copper 110 ETP Comm. Pure 2.00	7760747	7760241
C44300 CDA 443 Arsenical Admiralty 1.67	7760748	7760238
C70610 CDA 706 90/10 Cupro/Nickel 1.80	7760750	7760239
C71500 CDA 715 70/30 Cupro/Nickel 1.50	Special order	
S30400 AISI 304 Stainless Steel 0.89*	7760749	7760243
Z17001 Grades 1A, 1, 2, 3, or 5 Zinc 1.29	7760745	7760244

*Stainless Steel tips are poor indicators of corrosion rate. They are better suited to measuring pitting rate.

These sensors require a driver CR corrosion rate input card and are compatible with the MultiFLEX and Aegis controllers.

These sensors are not compatible with the LogR controller. Use only LogR sensors with the LogR analyzer and these sensors only with the driver CR card.
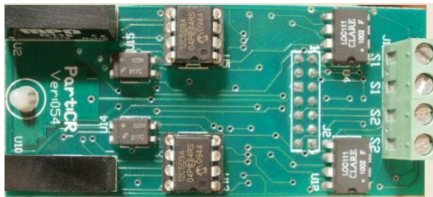
Dual input corrosion rate driver card 7760784

These sensors and driver card are not compatible with LogR standalone corrosion rate equipment. LogR sensors have electronic components embedded in the sensor. The above sensors have no electronic components. All measurement functionality is performed in the controller/driver card.

CORROSION RATE SENSOR
AND FITTING LAYOUT

A corrosion rate sensor is constructed of 4 sections; Holder, Body, Tee and tips. The tips are listed on page 1.

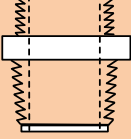5/8" Sensor **Holder Kit**
A261201 is SAP #
7760681

1 Cap

2 Retainer ring – Stainless

PVC Spacer – ¼"
7760209

#2-207 O Ring
7760359

1 ¼" ABS Sleeve
7760373
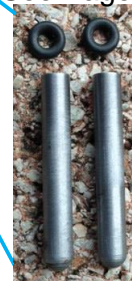
3 Nipple

7760364
**¾" Tubing Adapter
(3 Pieces)**

¾" PVC Tee is not included in the holder kit

NOTE: Nipple inserted into either Tee leg, not center

Leg

¾" PVC Tee
7741484

Leg

Center

Threaded posts

Corrosion Rate Sensor **Body** shown without tips
CRS-SEN SAP #
7760242

Tip set
With O rings
See Page 1

Extra cable: 2 conductor 22AWG
SAP #
7760527
Do not exceed 200'
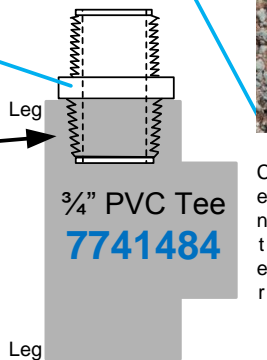
High pressure brass holder kit: **7760027** – 125 psi / 8.6 bar at 100^0F / 38^0C

Metric Corrosion Rate Tee
PN 1036738

To use the metric Tee, order the sensor package from page 1. This includes the sensor, tips and entry parts on page 2. Order the above metric Tee. Do not use the ¾" PVC Tee part number 7741484. It will be included with the kit.

The following metric corrosion rate kits include the metric Tee
7500805 – Carbon Steel corrosion rate sensor assembly - Metric
7500824 – Copper corrosion rate sensor assembly - Metric
7500825 – Zinc corrosion rate sensor assembly - Metric
7500826 – Cupro Nickel corrosion rate sensor assembly – Metric

Each assembly kit includes:
The sensor assembly 7760242 (See page 3)
The tubing adapter 7760364
Spacer 7760209, O-Ring 7760359 and Sleeve 7760373
The tip set; Carbon Steel 7760240, Copper 7760241, Zinc 7760244 or Cupro Nickel 7760239
The Metric Tee 1036738

Other metallurgies available in the standard kit can be converted by ordering the metric Tee in addition to the kit.

This tee is not compatible with the LogR sensors.