

MICROCOR[®] ONLINE SYSTEM

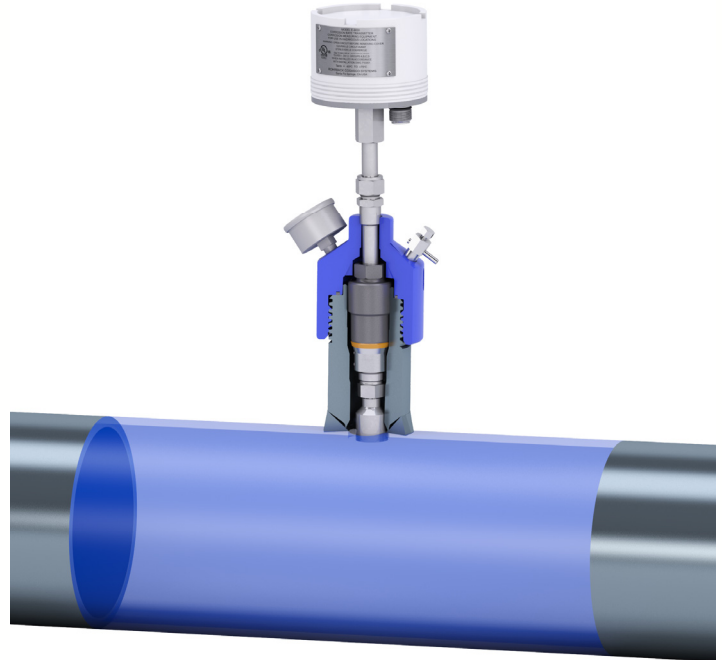
MT-9485A

Features

- **High Resolution Corrosion/Erosion Measurement**
- **Online Configuration**
- **Rapid Response**
- **Rated for Hostile Environments**
- **Approved for Hazardous Locations**

The Microcor[®] corrosion monitoring technology has been developed to substantially increase the speed of response over conventional monitoring techniques, such as coupons, electrical resistance (ER) probes, approaches that of linear polarization resistance (LPR), and is functional in all environments. Microcor is the result of patented technology which combines the rapid response of LPR and the universal applicability of ER.

The Microcor Transmitter is rated explosion-proof to the latest ATEX, UL and CSA standards, and it communicates over an RS 485 Field Bus. This design has the advantage of a more economical field installation cost.



MT-9485A Transmitter connected to M4700 Probe

A single cable may be used to connect up to 32 transmitters with a single cable run. This single multi-drop cable contains the 24 VDC supply to power the transmitters and the RS 485 communication bus. This design avoids the need to run a cable to each transmitter which is required with other designs.

For dedicated on-line systems the RS 485 bus is connected from isolating RS 485 cards mounted directly in the monitoring computer. A separate 24 VDC supply is also required to power the Microcor transmitters.

COSASCO[®]

MT-9485A

Specifications

Transmitter Model MT-9485A

Resolution

18 bit (1 part in 262,144)
0.000019mils (0.5nm) for T10/F10 element probes
0.000038mils (1nm) for T20/F20 element probes

Probe element resistance range

1 to 50 milliohms

Accuracy

Less than 0.001 mil (dependent on probe)

Real World Speed of Response

1 mpy = 8 hrs 20 mins
2 mpy = 4 hrs 10 mins
5 mpy = 1 hr 40 mins
7 mpy = 1 hr 12 mins
10 mpy = 50 mins

Power supply

10-32 VDC at the transmitter

Current consumption: at 24VDC typical 17 mA

Communication

- RS 485 two-wire 2400 Baud, 8 data bits, 1 stop bit, no parity (300 baud when connecting through – RS232/485 converter MA-1000)
- RS 485 addresses 0 to 31

Ambient temperature range

-40C to +70C (-40F to +158F)

Enclosure

NEMA 7 and IP 66/ NEMA 4X

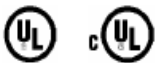
Weight

3.5 lbs (1.6 Kg)

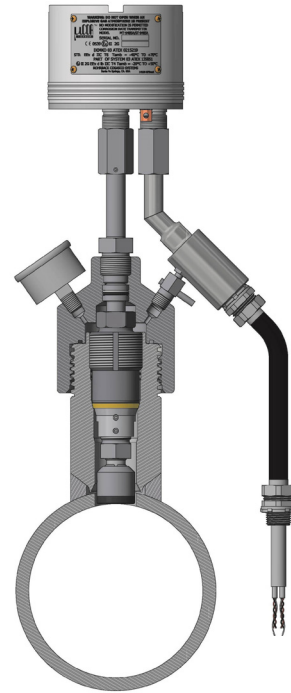
Hazardous area Certifications

Europe (CE/ATEX/EMC)
CE 0539 II 2G
DEMKO 03 ATEX 0215219
STD EEx d IIC T6
T_{amb}= -40C to +70C

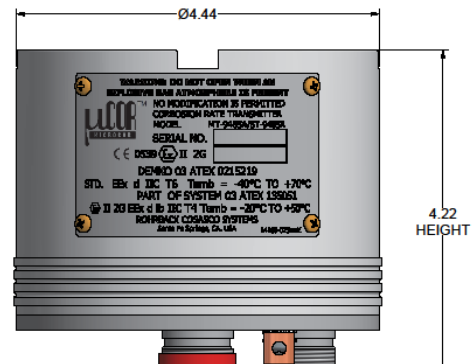
USA/Canada



Class I, Zone 1, AEx d IIC T6/EX d IIC T6
Class I, Div 2, Groups A, B, C, D when installed in accordance with installation drawing 702106
T_{amb}= -40C to +70C



Microcor Transmitter on an Access Fitting



MT-9485A

Ordering Information

Transmitter

P/N MT-9485A – Microcor Transmitter, RS-485, Aluminum Cover

P/N MT-9485A-SS – Microcor Transmitter, RS-485, Stainless Steel Cover

Probe to Transmitter

P/N 745092 – Probe Adapter for M2000 and M3000 series
Fixed and Retractable Probes

P/N 745093 – Probe Adapter for M4000 series High Pressure
(Cosasco®) Probes

P/N 745093H – Probe Adapter for M4000 series High Pressure (Cosasco®)
Probes & Hydraulic A/F's.

P/N 745114 – High pressure probe adapter for M4000 high
pressure probes. (10,000 PSI max.)

P/N 745114H - Microcor Hydraulic High Pressure Probe
Adapter 10,000PSI

P/N 748223-6 – Probe to Transmitter Cable Assembly (UL/CSA)

P/N 748224-6 – Probe to Transmitter Cable Assembly (ATEX)

Cosasco

11841 Smith Avenue
Santa Fe Springs, CA 90670, USA
Tel: 1-562-949-0123
Email: sales@cosasco.com
Web Site: www.cosasco.com

MT-9485A-DS rev- B-In
Rev. Date: 07/05/2017

©Rohrbach Cosasco Systems, Inc. All rights reserved

The contents of this publication are presented for information purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described wherein or their use or applicability. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.



FM 10694