

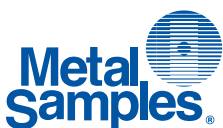
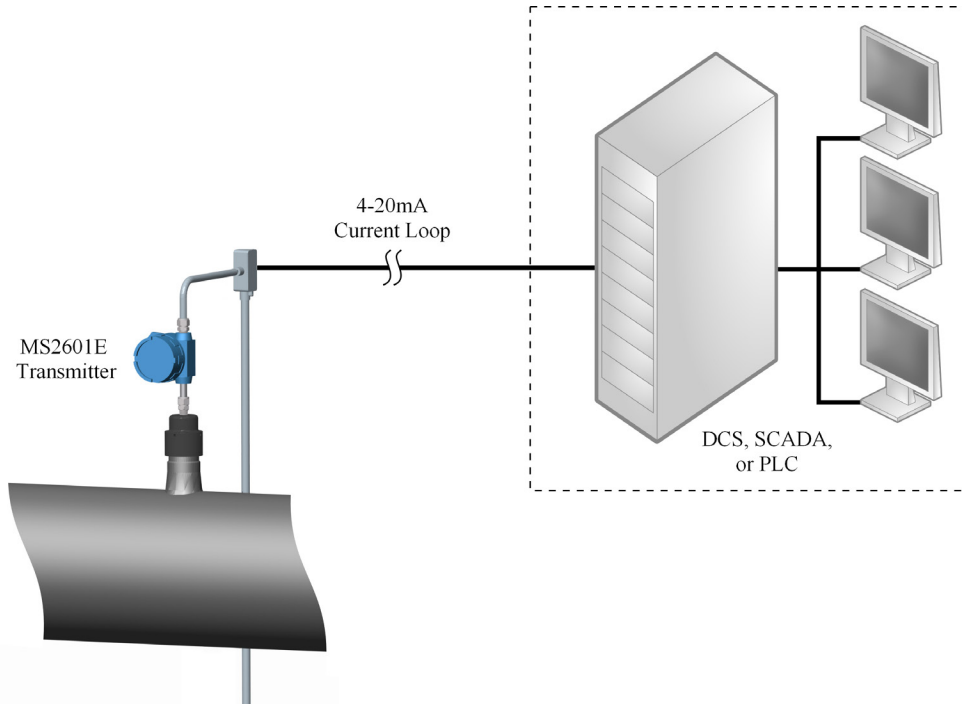
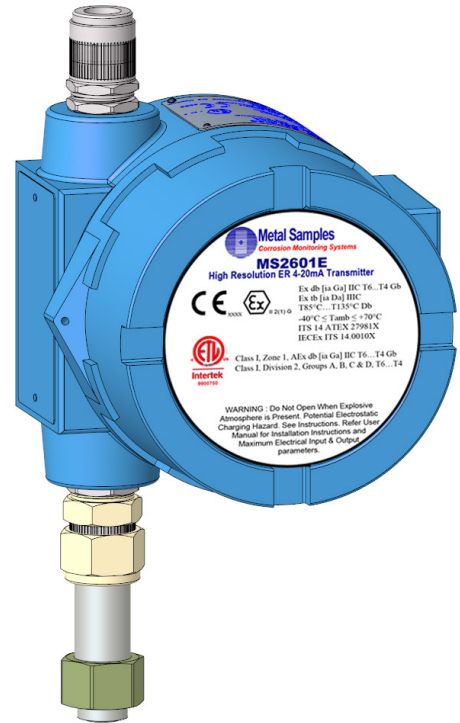
Model MS2601E

High Resolution ER Transmitter 4-20 mA Analog Output

Metal Samples' new compact MS2601E ER Transmitter (ERT) measures all types of electrical resistance (ER) corrosion probes. The new high-resolution, 16-bit measurement provides faster response, obtaining corrosion rates in hours instead of days.

The transmitter is provided in a weather-proof (IP 66 / NEMA-4X) enclosure and is flame-proof certified. It is designed to be mounted directly to the probe, but can also be mounted nearby using the optional mounting kit and a customer-supplied mounting pole.

The MS2601E is completely loop-powered with an in-built isolator, so installation is simple. No external isolator/barrier is necessary. A two-wire connection is all that is required for both instrument power and data transmission. Setup is also simple, using a set of switches to select the probe type to be measured.



Metal Samples Company

A Division of Alabama Specialty Products, Inc.

152 Metal Samples Rd., Munford, AL 36268 Phone: (256) 358-4202 Fax: (256) 358-4515

E-mail: mcs@alspi.com Internet: www.metalsamples.com

Houston Office: 6327 Teal Mist Lane, Fulshear, TX 77441 Phone: (832) 451-6825

Technical Specifications

Model

MS2601E - High Resolution ER 4-20mA Transmitter, Direct Mount
MS2601E-XX* - High Resolution ER 4-20mA Transmitter, Remote Mount

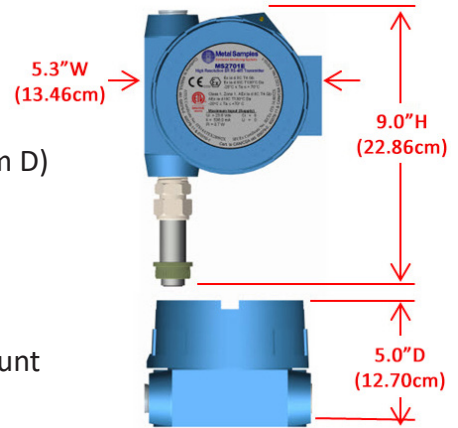
*XX = Cable length in feet, up to 30 feet maximum, in 5-foot increments.

Physical Data

Instrument Weight: 5.25 lb. (2.38 Kg)
Total Weight w/ Accessories: 7.31 lb. (3.31 Kg)
Instrument Dimensions: 9.0"H x 5.3"W x 5.0"D
(22.86cm H x 13.46cm W x 12.70cm D)

Operating Temperature: -40° to 158°F (-40° to 70°C)
Storage Temperature: -40° to 176°F (-40° to 80°C)

Enclosure Material: Cast Aluminum (Copper-Free)
Mounting Specifications: Direct probe mount or Remote mount
(Up to a 2.5" (6.35cm) Dia. pole)



Performance Data

Measurement Type: ER measurement using any standard ER probe type
(Wire Loop, Tube Loop, Cylindrical, Flush, Strip, etc.)
Range: 0-100% of probe life
Resolution: 0.0015% of Probe Life (16-bit)
Cycle Time: 1 Minute

Electrical Data

Power Requirements: 11 to 28 VDC
Maximum Probe Cable Distance: 30 ft (9.1 m)
Output Specifications: 4-20mA Current Loop Output

Hazardous Location Certifications

Europe and Worldwide
(ATEX and IECEx) II 2(1) G Ex db [ia Ga] IIC T6...T4 Gb
II 2(1) D Ex tb [ia Da] IIIC T85°C ...T130°C Db
- 40°C ≤ Tamb ≤ + 70°C
Ex db [ia Ga] IIC T6...T4 Gb
Ex tb [ia Da] IIIC T85°C ...T130°C Db
- 40°C ≤ Tamb ≤ + 70°C

ATEX Certificate No: **ITS14ATEX27981X**
IECEx Certificate No: **IECEx ITS 14.0010X**

USA and Canada
(ETL) Class I, Zone 1, AEx db [ia Ga] IIC T6...T4 Gb
Class I, Division 2, Groups A, B, C & D, T6...T4

Hazardous Location Certifications – Enclosure

Case Specifications: Explosion Proof (FM, CSA, UL)
IP 66, NEMA 4X, 7BCD, 9EFG

Included Accessories (Direct-Mount Model)

Meter Prover, Operations Manual

Included Accessories (Remote-Mount Model)

Meter Prover, Operations Manual, Probe Cable, Mounting Hardware Kit

Contact Metal Samples for special cables and cable entries.