Model MS2801E

CORR VELOX

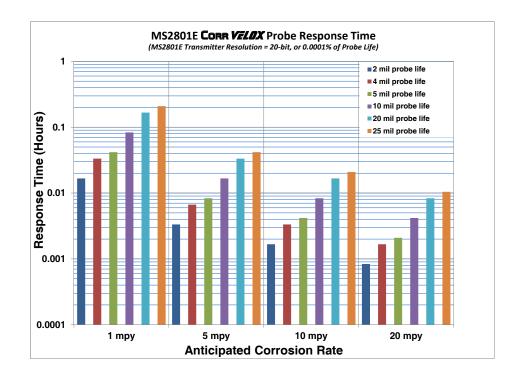
Ultra Resolution ER Transmitter RS-485 Modbus Output

Metal Samples' new compact MS2801E **CORR VELOX** ER Transmitter measures all types of electrical resistance (ER) corrosion probes. The ultra high-resolution, 20-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) and explosion proof cast aluminum enclosure. 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 **CORR VELOX** transmitter offers simple installation and robust RS-485 Modbus communication, allowing up to 32 units to be connected in series (daisy-chained) on a single line. Setup is also simple, using a set of switches to select the probe type to be measured, address, and other options.







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

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

Technical Specifications

Model

MS2801E-00YY - **CORR VELOX** Ultra-High Resolution ER RS-485 Modbus Transmitter, Direct Mount MS2801E-XXYY - **CORR VELOX** Ultra-High Resolution ER RS-485 Modbus Transmitter, Remote Mount

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

YY = Enclosure type (00 = Aluminum (standard), 01 = Stainless Steel)

Physical Data

Instrument Weight: 3.70 lb. (1.68 Kg) Total Weight w/ Accessories: 5.76 lb. (2.61 Kg)

Instrument Dimensions: 8.0"H x 4.82"W x 3.45"D

(20.32cm H x 12.24cm W x 8.76cm D)

Operating Temperature: -40° to 158°F (-20° to 70°C)
Storage Temperature: -40° to 158°F (-20° to 70°C)
-40° to 158°F (-40° to 80°C)
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 Range: 0-100% of probe life

Resolution: 0.0001% of Probe Life (20-bit)

Cycle Time: 75 Seconds

Electrical Data

Power Requirements: 10 to 30 VDC Maximum Probe Cable Distance: 30 ft (9.1 m)

Output Specifications: RS-485 Modbus, RTU or ASCII Protocol (Switch Selectable)

2400 / 4800 / 9600 / 19.2K Selectable Baud 32 Maximum Units (Addresses 1 to 32)

Hazardous Location Certifications – Transmitter

Europe and Worldwide II 2(1) G Ex db [ia Ga] IIC T6...T4 Gb (ATEX and IECEx) II 2(1) D Ex tb [ia Da] IIIC T80°C Db

- 40°Ć ≤ Ta ≤ + 70°C

ATEX Certificate No: ITS18ATEX2203437X IECEx Certificate No: IECEx ETL 18.0020X

X - see Special Conditions in Operator's Manual.

Hazardous Location Certifications – Enclosure

Case Specifications: Explosion Proof (FM, CSA, CENELEC, 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

