Model MS2900E

High Resolution ER Transmitter 4-20 mA / HART Output

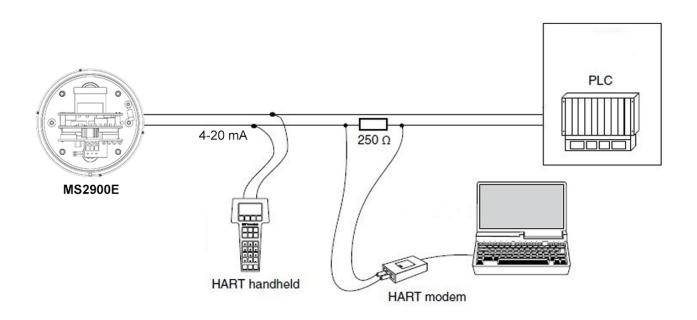
Metal Samples' new compact MS2900E ER Transmitter (ERT) measures all types of electrical resistance (ER) corrosion probes using state-of-the-art algorithms and data analysis. The new high-resolution, 16-bit measurement provides faster response, obtaining corrosion rates in hours instead of days. Metal loss gets updated and transmitted after each measurement cycle in the form of 4-20mA /HART signal.

The transmitter is provided in a weather-proof (IP 66) stainless steel enclosure designed for applications which do not permit aluminum enclosures (such as offshore environments or Zone 0 hazardous areas).

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 MS2900E is completely loop-powered, so installation is simple. 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.





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Technical Specifications

Model

MS2900E - High Resolution ER 4-20mA HART Transmitter

Physical Data

Instrument Weight: 3.70 lb. (1.68 Kg)
Total Weight w/ Accessories: 5.76 lb. (2.61 Kg)
Instrument Dimensions: 6.0"H x 4.0"Dia

(15.25cm H x 10.16cm Dia)

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

Enclosure Material: 316 Stainless Steel

Enclosure Rating: IP66

Mounting Specifications: Direct probe mount (standard)

May be pole mounted using optional hardware

(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.)

4.0" Dia

(10.16cm)

6.0"H (15.25cm)

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 Data

Output Signal: 4-20mA output with HART protocol Alarm Signal: - Current Output Configurable

- Digital interface

Load: - min. 250 Ohms for HART Communication

<u>Hazardous Location Certifications – Intrinsic Safety</u>

Europe and Worldwide II 1 G Ex ia IIC T4 Ga (ATEX and IECEx) -40° C \leq Tamb \leq + 70° C

Ex ia IIC T4 Ga

- 40°C ≤ Tamb ≤ + 70°C

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

USA and Canada Ex ia IIC T4 Ga

(ETL) Class I, Division 1, Groups A, B, C & D, T4

Class I, ZoneO, AEx ia IIC T4 Ga

-40° C ≤ Ta ≤ +70° C

Included Accessories

33' (10 meters) Current Loop Wiring Harness, Meter Prover, Operations Manual

Optional Accessories

Probe Extension Cable, Remote Mounting Hardware