

AX-DG RS485 Transmitter



AXESS RS485 High Resolution Transmitter

High Resolution, RS485 Modbus Output, Multi-Function

Axess RS485 High Resolution Transmitter

The Axess RS485 Transmitter is a high resolution, multi-functional on-line corrosion monitoring instrument. The high-resolution, 20-bit measurement provides a fast response, obtaining corrosion rates in hours instead of days. The transmitter is multi-function and can read all types of Electrical Resistance (ER), Linear Polarization Resistance (LPR) and Galvanic probes. The transmitter can be direct mounted at the probe location using a probe adapter or remote mounted nearby. The AX-DG RS485 transmitter offers simple installation and RS485 Modbus communication, allowing up to 32 units to be connected in series on a single line. Setup is simple, using switches to select probe type, Modbus address and other settings. The transmitter has RTU or ASCII switch selectable communication protocols.

The transmitter is available in a weather-proof stainless-steel enclosure or flameproof copper-free aluminum enclosures.





Key Features

- High resolution equipment designed to measure Electrical Resistance (ER), Linear Polarization Resistance (LPR) and Galvanic probes
- Probe connector designed for direct mounting
- Optional probe extension cable available
- Stainless Steel or Flameproof copper-free aluminum enclosure options
- User friendly switches used to the desired probe type
- Supports RTU or ASCII communication protocols (user-selectable)
- Power supply range 10-35V DC

Technical Specification	
Type	Electrical Resistance (ER) Linear Polarization Resistance (LPR)
Range	ER: 0 - 100% of Probe Life LPR: 0 - 200 mpy Galvanic: 0 - 1,000µA Potential: 0 - 2V
Resolution	0.0001% of Probe Life (20 bits)
Accuracy	± 0.1%
Cycle Time	1 minute
Temperature range	-20°C to 70°C (-4°F to 158°F)
Power Supply	10 - 35 VDC
Enclosure Material	Stainless Steel or Flameproof copper free aluminum
IECEX	Ex ia IIC T4 Ga/Gb
ATEX	Ex II 1/2 G Ex ia IIC T4 Ga/Gb
Operating Temp	-20°C ≤ T _{amb} ≤ 70°C
Ingress Protection	IP66
Output	RS-485 MODBUS RTU or ASCII Protocol 2400/4800/9600/19200 baud rate Address 1 to 32 (All settings are switch selectable)
Weight	2.7kg (6.0 lb.)/1.5kg (3.3 lb.)
Dimensions	147mm x 100 mm Dia. (5.78" x 3.94" Dia)

Part Numbering	
AX-DG	Axess RS485 Transmitter
AX-DG-3	Axess RS485 Transmitter – 3 Meter Cable (Standard)

