

# Modbus Transducer

Integration of state-of-the-art corrosion & cathodic protection measurements into existing monitoring solutions

## FEATURES

- RS485 serial link
- Multiple measurement channels
- Variable baud rate
- Modbus RTU protocol
- Compatible with all MetriCorr Slimline units, VL100, ICL or ICL-C
- ER Probe measurements via ICL units.
- Modbus Register Map

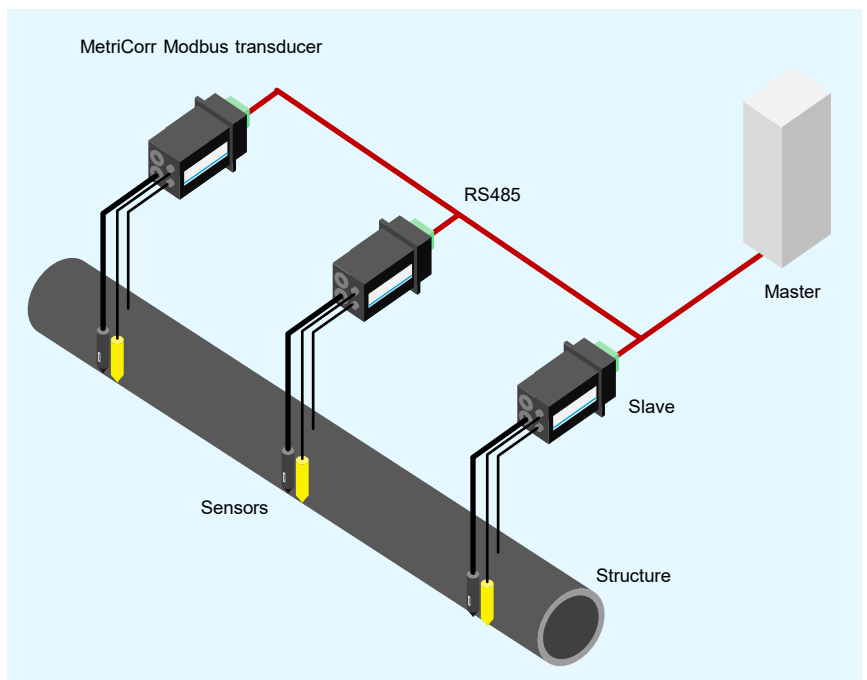
## MEASUREMENTS

(depending on transducer)

- ✓ Line current / shunts
- ✓ Corrosion rate
  - ✓ On (pipeline)
  - ✓ Instant-off (coupon)
  - ✓ IR-free (coupon)
- ✓ DC current density
- ✓ AC voltage
- ✓ AC current density
- ✓ Spread resistance
- ✓ Temperature

## DESCRIPTION

The MetriCorr Slimline units offer a range of powerful measurements for corrosion & cathodic protection monitoring. Enabling owners and operators to verify safe operation and integrity of their assets at any time. With the Modbus transducer unit, MetriCorr offers a path for our high-quality measurements into practically any existing data acquisition system, SCADA system or other type of controller/PLC using a standard RS485/Modbus protocol.



Several MetriCorr Modbus transducers can be connected to the same Modbus master in a daisy chain configuration. This enables monitoring of a large number of sensors with the same Modbus master, via connection to a distributed RS485 communication network.



The MetriCorr Modbus transducer is compact and designed to fit inside Big Fink CP test stations.

The power of this unit lies in the ability to seamlessly integrate with existing monitoring systems.

Refer to the Modbus Register Map for more details about the available measurements with the MetriCorr Modbus transducer units.

Contact MetriCorr: [sales@metricorr.com](mailto:sales@metricorr.com)

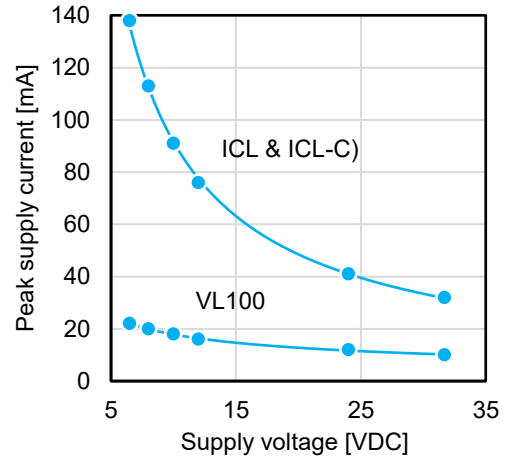
# Technical specifications - Modbus transducer

<b>Modbus protocol</b>	Modbus RTU	
<b>Baud rates</b>	19,200 38,400 56,800 115,200	
<b>Inrush current</b>	< 200 mA	
<b>Idle current</b>	5 mA to 9 mA	
<b>Casing / Humidity Temperature</b>	IP65 / 0 to 100% RH condensing conditions -40°C to +85°C	
<b>Transducer options</b>	VL100: Voltage ICL: Interference Corrosion ICL-C: Interference Corrosion & Line-current	
<b>Size L x W x H</b>	141 x 68 x 81 mm	
<b>Supply voltage</b>	Min: 6.5 VDC Max: 32 VDC Typical: 12 VDC / 24 VDC	
<b>Power consumption</b>	VL100	≤ 0.4 W
	ICL	≤ 1.1 W
	ICL-C	≤ 1.1 W

## DISCLAIMER

The Slimline Loggers from MetriCorr are designed for optimal performance in conjunction with the CP\*Manage Web tool. Some features such as for example intensive measurements, GPS time synchronized ON/OFF measurements, remote firmware update management and others, are not available for the Modbus transducer units.

## POWER



## FLEXIBILITY

The MetriCorr Modbus transducer replaces the commonly used Masterlink communication module and enables simple master/slave communication via a standard Modbus RTU protocol with various MetriCorr units.

Different measurement channels are available for each transducer. Note that a wide range of measurements are provided for the ICL-type units. Refer to infosheets for specifications:

- VL100: IS-PL-30
- ICL: IS-PL-42
- ICL-C: IS-PL-52

