VL100 Voltage Logging Test Station

Pipeline DC Potential, Polarized Off Potential, AC Voltage Verify efficiency of applied cathodic protection, critical bond performance etc.

FEATURES

Complete instrumented test station (Big Fink or customized)

Verification of CP efficiency

Easy installation – long battery life – solar option

Remote Monitoring – operate from Web or App

Cellular or Satellite

GPS time synchronization

Data presentation, analysis, reporting in CP*Manage Web

MEASUREMENTS

- ✓ Pipeline DC potential
- ✓ Polarized (Off) potential
- ✓ AC voltage
- ✓ Shunts



DESCRIPTION

The MetriCorr VL100 is a unit for remote monitoring and data logging which is used for DC potential readings, polarized ("off") potential readings, AC voltage readings, or for monitoring of critical bond currents across a shunt resistor.

The MetriCorr VL100 test station is part of a complete remote monitoring system for pipelines and associated components like T/R's, line current spans, critical bonds, ER probes for corrosion rate measurements, interference loggers, etc.

Like the rest of the MetriCorr Slimline product family, the VL100 is intended as a remote monitoring unit (RMU), a data logging device, or simply as a spot reading device. It may be operated through the MetriCorr CP*Manage Web or through the MetriCorr iOS/Android App. Data is sent to the CP*Manage Web for easy reporting and analyzing or uploaded through the MetriCorr App and emailed to be processed by Excel (or similar) according to specific user needs.

Remote monitoring and communication is done by cellular service with satellite communication as an alternative option.

The GPS time synchronization and designed measurement cycle ensures the possibility of getting "ON" readings as well as "instant OFF" readings synchronized with rectifier switch-off. User defined delay after switch-off is offered within the range of 120ms to 3s.

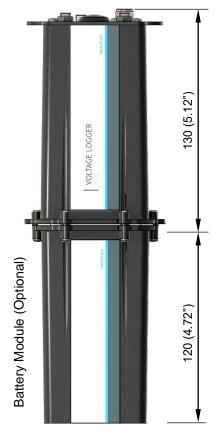
The Slimline product family fits into Big Fink test stations, MetriCorr test stations, junction boxes, or may be customized to fit into the operators' preferred embodiment.

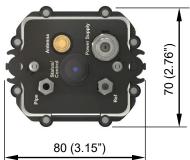




Technical specifications - VL100

Technical data		
Storage capacity	+200 000 readings	
Logging interval	10 min – ∞, Typically 1 hour	
	1s (intensive mode)	
Power supply options	 Mains adapter 100–240 V AC / 12 V DC Solar Power (MetriCorr types available) Battery Module 	
Battery Lifetime	+3 years @ hourly logging, weekly upload +10 years @ 6 times daily	
Casing Humidity Operating conditions	IP65 0 to100% RH condensing conditions -40°C to +85°C	
Transient protection	1100 V for 150 ms – 20 kA @ 8/20 μs 12.5 kA @ 10/350 μs (optional)	
Test Station Options	Big Fink (example shown on p. 1)MetriCorr Type Test StationJunction BoxCustomer's own spec	
Size L x W x H	130 x 70 x 80 mm (logger + RMU) 250 x 70 x 80 mm (built in battery)	
Communication (with Masterlink RMU)	 LTE Cat. 1 - 4G/5G with 2G/3G fall back Satellite (option) Android or iOS App - Bluetooth Ethernet (option) GPS Time Synchronization GNSS (Position) 	
Voltage (Edc, Uac)	Input resistance Range Resolution DC accuracy AC accuracy	+10.0 MΩ 100 V 1 mV \pm 1 mV \pm 0.3% reading \pm 1 mV \pm 1% reading





VL100 INSTALLATION EXAMPLES

