

SENTINEL PLUS

PRODUCT DESCRIPTION

Our compact and accurate Cathodic Protection remote monitoring Sentinel series are designed to be used in any type of CP application. It may fit inside several types of test posts including steel test posts and by using GSM connection, all type of CP regular measurement data could be collected remotely. Measurement interval and parameters are easily set via internet on our in-house built server interface.

- Rugged and durable with aluminium enclosure
- Easy to fit inside 4" steel test post
- Android[™] application to first start up and data control on site
- AC/DC Voltage and AC/DC Current Measurements from pipe, coupon and anode
- Long battery life without any replacement (up to 5 years by weekly data collection.)

AREAS OF USE

- Regular Cathodic Protection Potential Survey
- Pipe Polarized Potential Survey
- Polarization Tests

FEATURES

- DC / AC Voltmeter / Ammeter
 - o Measurement Waveform : DC & AC
 - Voltage Measuring Range : ± 8 Volts DC, AC (RMS)
 - Current Measuring Range: ± 100mA DC, AC
 - Voltage Resolution : 1 mV DC/AC
 - Current Resolution: 0.1mA DC/AC
 - Accuracy : + / %1
 - High Voltage Protection
 - o 50Hz AC Filter
- Remote Data Transfer via GSM
 - o Device locations on web based interface
 - o Data collection settings including data interval, parameters and alarms
 - Android[™] Application via Bluetooth
 - Supports Android[™] 4.4 to Android[™] 9
 - Real Time Voltage Measurements and Graphs
 - Remote Monitoring Settings
- Physical Properties
 - Dimensions 125x80x57mm excluding terminals



- AC / DC Interference Tests
- Coupon Tests
- Current Requirement Tests

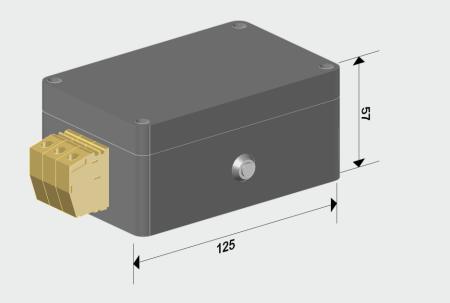


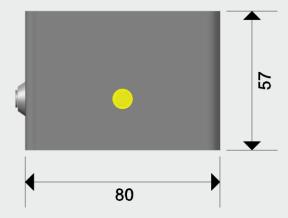
SENTINEL PLUS – Technical Specifications

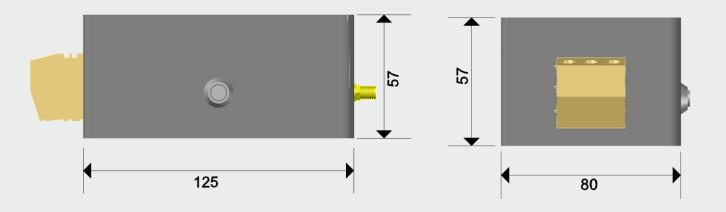
Description	Value	Description	Value		
Channel1		Channel2			
Туре	Current	Туре	Voltage		
Range	± 100mA	Range	± 8V		
Resolution	0.1mA	Resolution	1mV		
Accuracy	±1% + 0.1mA (1Digit)	Accuracy	±1 % + 1mV (1Digit)		
Protection Type	Fuse	Protection Type	MOV+PTC+VDD Clamping		
Input Impedance	< 0.1 ohms	Input Impedance	~ 10Meg ohms		
Storage		GSM			
Туре	SD Card	2G	Yes		
Size	8GB Standar up to 64GB	3G	Optional		
WiFi		4.5G	Optional		
Frequency	2412-2484 Meg Hz	Antenna Type	Standart SMA Antenna		
TX Power	13 dBm	Measurements			
Sensitivity	-74 dBm	DC On Potential (mVDC)			
Antenna Type	Internal Antenna	DC Instant Off Potential (mVDC)			
Battery		AC Potential (mVAC)			
Capacity	19000mAh	DC Coupon Current (mADC)			
Standby Life	10 Years	AC Coupon Current (mAAC)			
1 Hour Interval	~4.500 Data Sent Life: 186 Days	DC Coupon Potential (mVDC)			
2 Hour Interval	~`4.350 Data Sent Life: 363 Days	AC Coupon Potential (mVAC)			
4 Hour Interval	~4.150 Data Sent Life: 693 Days	Galvanic Anode Potential (mVDC)			
24 Hour Interval	~2.900 Data Sent Life: 2900 Days	Galvanic Anode to Pipe Current (mADC)			



SENTINEL PLUS - Dimensions

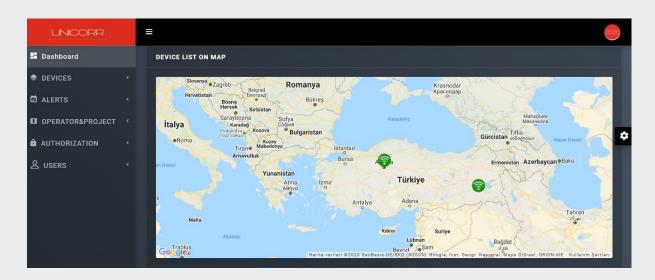


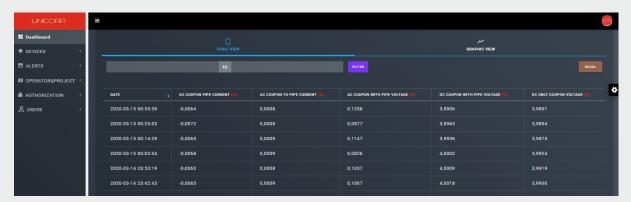


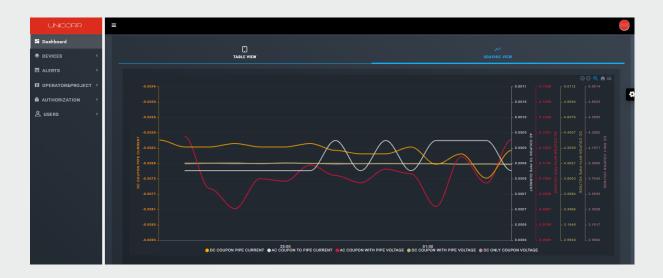




SENTINEL PLUS – Web Server User Interface









SENTINEL PLUS – Web Server User Interface

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 Dashboard DEVICES ~ 	Device List Dashboard / Device Management				
 Device Types Device Management 	ADD NEW DEVICE				
D OPERATOR&PROJECT < A AUTHORIZATION < A USERS <	Device Filters Device NAME Choose- Device Type NAME -ChooseChoose-	PROJECT INFORMATION FILTER		status -Choose-	•
	III Device List				
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	DEVICE NAME	E 11 LONGITUDE 11 IP ADDRESS 11 STA			
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UNICORR					0
Dashboard	Device Management				Ŭ
DEVICES <	Dashboard / Device Management / Device Management				
🖾 ALERTS <	Device Details	PARAMETERS	ද්රි} CONFIGURATIONS	ل Alerts	
DI OPERATOR&PROJECT <	Device Name : Unicorr-SP-200002 Device Type Name : Sentinel Plus		CONFIGURATIONS	ALENIS	0
ع users د	Operator : KORTEK ARGE	PARAMETER NAME		VALUE	
	Project : ARGE Latitude : 38 / Longitude : 42	Battery Voltage (V)			
	IP Address : 127.0.0.1 Last Communication Time : -	DC COUPON PIPE CURRENT (A)			
	Device Unique ID : yW9zaaC2WFXmmIGZtc6D	AC COUPON TO PIPE CURRENT (A)			
	Status : Active	AC COUPON WITH PIPE VOLTAGE (V)			
	Informations	DC COUPON WITH PIPE VOLTAGE (V)			
	Battery Capacity = 19000 (STRING)	DC ONLY COUPON VOLTAGE (V)			
UNICORR					
E Dashboard	Edit Device Type Dashboard / Device Types / Edit Device Type				
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O OPERATOR&PROJECT <	DEVICE TYPE NAME				
authorization <	Sentinel Plus				0
오 USERS 〈	UPDATE				
	Information List	Configuration List		Parameter List	
	Name Type Action	Name	Typ Name		Туре
	Battery Capacity String	GSM SERVER CONNECTION INTERVAL	Int AC COL	JPON TO PIPE CURRENT	Double
	*	4	AC COL	IPON WITH PIPE VOLTAGE	Double
	+ ADD NEW INFORMATION	+ ADD NEW CONFIGURATION	AC ON	Y COUPON VOLTAGE	Double