



PRODUCT FUNCTION

- Online monitoring of the earth resistance, earth voltage.

PRODUCT FEATURES

- Precision 3-wire or simple 2-wire method to measure earth resistance, average value rectification method to test earth voltage, on-line detection and real time monitoring.
- Users can choose RS485 communication and can perform secondary development, network construction, and remote multi-point online monitoring based on the provided MODBUS communication protocol.
- Equipped with LCD screen, can observe the earth resistance value at any time.
- Audible and visible alarm indication, the detector can setting the alarm thresholds, and setting the automatic monitoring record interval time.
- User can measurement with 4-wire method, which can be used for soil resistivity test calculation.

TECHNICAL SPECIFICATION



Power Supply	Standard: 12V ± 1VDC, 400mA Max. Optional: 12 ~ 24V (± 1VDC) external supply		
LCD Size	128mm x 75mm; Display area: 124mm x 67mm		
Earth Resistance	Range	Accuracy	Resolution
	0.01Ω ~ 20Ω	± 2% rdg ± 3dgt	0.01Ω
	0.1Ω ~ 200Ω	(auxiliary earth resistance 100Ω ± 5%, voltage to earth < 10V)	0.1Ω
	1Ω ~ 2000Ω		1Ω
Ground Voltage	0 ~ 600V AC	± 2 % rdg ± 3dgt	1V
Measure Mode	Precise 3-wire measurement, simple 2-wire measurement		
Measure Method	Earth resistance: Rated current change-pole method, measured current 11mA Max, 128Hz; Voltage to earth: average value rectification method		
Measurement Time	Voltage to earth: approx. 2 times/sec; Earth resistance: approx. 30 sec/time		
Measurement Rate	Over 10000 times		
Monitoring Interval Time	Setting range of automatic monitoring interval time: 1 ~ 999 h		
Detector Interface	Pluggable terminal blocks: 9 pin terminal		
Communication Mode	RS485		
Data Storage	400 groups , flash display "FULL" symbol indicate storage is full		
Data Access	Data access function: "READ" symbol display		
Overflow Display	Overrange overflow function: "OL" symbol display		
Alarm Indication	Audible & visible alarm		
Power Voltage	When power voltage lower than 10V, power voltage low symbol will display		
Overload Protection	When measurement earth resistance: Between E-P, E-C each interfaces AC 280V / 3 sec		
Electromagnetic Property	IEC61010-4-3, Wireless frequency electromagnetic field ≤ 1V/m		
Line Voltage	Measuring the voltage to earth: Below AC 600V		
Weight	Approx. 450g		
Detector Dimension	190mm x 117mm x 54mm		

Guangdong ETCR Electronic Technology Co.,Ltd

10th F, U-5, Liandong Intelligent Manufacture Park,
No. 105, Shilong N. Road, Nanhai, Foshan, China

Tel: (86-757)66860936
info@etcr.net
www.etcrmeter.com

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.
Subject to technical change without notice.

ETCR METER[®]

GUANGDONG ETCR ELECTRONIC TECHNOLOGY CO.,LTD.

Accessories	Detector*1PC; 9P terminal block*1PC
--------------------	--

Guangdong ETCR Electronic Technology Co.,Ltd

10th F, U-5, Liandong Intelligent Manufacture Park,
No. 105, Shilong N. Road, Nanhai, Foshan, China

Tel: (86-757)66860936
info@etc.net
www.etcmeter.com

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery.
Subject to technical change without notice.