



Product Function

Online monitoring of earth resistance, earth voltage.

Product Features

1. Using precision 3-wire or simple 2-wire measurement method to test the earth resistance. Adopt with average value rectification method to test earth voltage, online detection, real-time monitoring.
2. User can communication with RS485 or 4G, according the protocol MODBUS to secondary development, build network, realize remote multipoint online monitoring etc.
3. Equip with LCD screen, can observe the earth resistance value at any time.
4. The detector has a guide rail mounting structure, which is particularly convenient for installation.
5. User can choose the 4-wire measurement method, which can be used for soil resistivity test calculation.

Technical Specification

Power Supply	Standard: 12V \pm 1VDC, 400mA Max. Optional: 24V \pm 1VDC (external supply)		
Earth Resistance	Range	Accuracy	Resolution
	0.01 Ω ~20 Ω	$\pm 2\% \text{rdg} \pm 3 \text{dgt}$ (auxiliary ground resistance 100 $\Omega \pm 5\%$, voltage to earth < 10V)	0.01 Ω
	0.1 Ω ~200 Ω		0.1 Ω
	1 Ω ~2000 Ω		1 Ω
Earth Voltage	0~600V AC	$\pm 2\% \text{rdg} \pm 3 \text{dgt}$	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 ground: average value rectification method		
Weight	Detector: 380g		
Detector Dimension	130mmX90mmX54mm		
LCD Size	47mmX28.5mm		
Measurement Time	Voltage to earth: about 2 times/second ; Earth resistance: about 30 seconds/time		
Measurement Rate	Over 10000 times		
Monitoring Interval Time	Setting range of automatic monitoring interval time :1~999 h		
Instrument Interface	Pluggable terminal blocks: 9 pin terminal block		
Communication Mode	RS485 or 4G		
Data Storage	99 groups, flash display "99" symbol indicate storage is full		
Data Access	Data access function : "READ" symbol display		
Overflow Display	Overrange overflow function : "OL" symbol display		
Alarm Indication	Audible and visible alarm		
Power Supply Voltage	When power supply voltage lower than 10V, power voltage low symbol will display, and remind to replace the power		
Overload Protection	When measurement earth resistance: E-P , E-C between each interfaces AC 280V/3 seconds		
Electromagnetic Property	IEC61010-4-3,Wireless frequency electromagnetic field $\leq 1\text{V/m}$		
Line Voltage	Measuring the voltage to earth: Below AC 600V		
Accessories	Detector: 1PCS; 4G communication module+ external antenna: 1PCS; 9P terminal block: 1PCS		