



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, 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. Audible and visible alarm indication, can setting the alarm thresholds, and setting the automatic monitoring record interval time.
5. User can choose the 4-wire measurement method, which can be used for soil resistivity test calculation.

Technical Specification

Power Supply	Standard: 12V ± 1VDC, 400mA Max. Optional: 24V ± 1VDC (external supply)		
Earth Resistance	Range	Accuracy	Resolution
	0.01Ω~20Ω	±2%rdg±3dgt (auxiliary earth resistance 100Ω±5%, voltage to earth<10V)	0.01Ω
	0.1Ω~200Ω		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		
Weight	Detector: 450g		
Dimension	190mmX117mmX54mm		
LCD Size	128mmX75mm; Display area: 124mmX67mm		
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		
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	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 ≤ 1V/m		
Line Voltage	Measuring the voltage to earth: Below AC 600V		
Accessories	Detector: 1PCS; 9P terminal block: 1PCS		