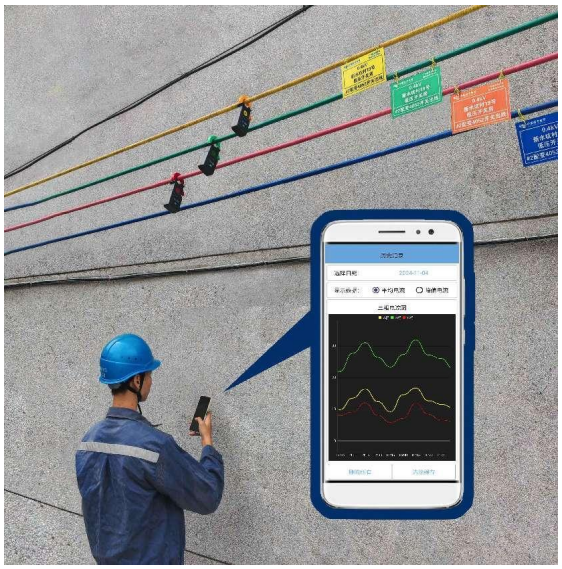
ETCR METER®
GUANGDONG ETCR ELECTRONIC TECHNOLOGY CO.,LTD.

EM8080

Wireless Three-phase Current Online Monitor





PRODUCT COMPOSITION AND APPLICATION

- The EM8080 Wireless Three-Phase Current Monitor adopts wireless multi-connection communication technology. It is used for on-line monitoring and recording of the three-phase current and three-phase unbalance degree of equipment, and provides users with trend charts of three-phase current load data. Multiple sets of monitors can also be used to monitor and record the three-phase load conditions of distribution transformer in transformer district and each branch, providing technical support for load transfer and switching in transformer district. Users can view current data on site via mobile phone Bluetooth or remotely in the background via 4G communication.
- The product consists of 3 monitors, a charging base, a charger, a Bluetooth APP and a background system.

PRODUCT FEATURES

- The monitoring device realizes multi-connection communication between devices, between devices and mobile phones, and between devices and background servers through multi-connection communication technology.
- The monitor can measure and record data such as the average, maximum and minimum values of three-phase current and three-phase unbalance degree, and display trend charts of three-phase current changes over time.
- Users can set device number, test interval and other parameters on site via mobile phone Bluetooth or remotely in the background via 4G communication, and view device number, battery level and three-phase load data.
- The extremely low operating power consumption ensures the instrument can perform continuous on-site monitoring for a long time.
- The monitoring device adopts a clamp structure, which does not require disconnecting the measured circuit, making the test safe and fast.
- The monitoring device has waterproof and dustproof functions with the protection level of IP65.
- The monitoring device has an anti-theft function with a built-in electronic lock. It can connect to Bluetooth and use the APP to control the locking or unlocking of the clamp head, and can be installed for outdoor use.
- The monitoring device has a built-in high-capacity lithium battery with an ultra-long battery life.
- The monitoring device is equipped with a charging base that can charge 3 monitors at the same time.

TECHNICAL SPECIFICATION

Power Supply	2PCS 18650 lithium batteries (6700mAh)	
Communication Mode	4G / Bluetooth	
Measuring Range	AC 0mA ~ 600A	
Measurement Accuracy	0mA ~ 59.9A	± 1.5%rdg ± 5dgt
	60.0A ~ 199A	± 2%rdg ± 5dgt
	200A ~ 600A	± 3%rdg ± 5dgt
Range Switching	Full-range automatic switching	
Acquisition Frequency	2 times/second	
Upload Frequency	1 time/15 minutes	
Uploaded Data	Device number + current test date and time + battery level of A / B / C monitors + 15-minute average three-phase current + 15-minute peak value of average three-phase current	
4G Communication Protocol	Adopts MQTT to send data packets to subscribed topics	

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Battery Life	More than 7 days
Charging Method	Integrated type; the charging base can charge 3 current clamps at the same time at one time
Anti-theft Function	Built-in electronic lock; the Bluetooth APP controls the locking or unlocking of the clamp head
Indicator Lamps	Charging indicator: red when charging, green when fully charged. Power indicator: green on represent sufficient power, red flashing to remind timely charging. Communication indicator: green on represent normal communication connection. For detailed indicator status, refer to the instruction manual.
Waterproof Level	IP65 for circuit part
Insulation Strength	AC2kV/rms (between iron core and casing)
Working Temperature	- 15℃ ~ 50℃
Storage Environment	Temperature - 10℃ ~ 60℃; Humidity below 70%RH
Clamp Jaw Size	Φ40mm
Overall Dimensions	198mm × 95mm × 50mm
Monitor Weight	Approx. 3.88kg (including accessories)
Safety Standards	IEC1010-1, IEC1010-2-032, Pollution Degree 2, CAT Ⅲ (600V)
Accessories	Monitors*3PCS; Charging base*1PC; Power adapter*1SET; Tool bag*1PC





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