ETCR METER®

GUANGDONG ETCR ELECTRONIC TECHNOLOGY CO.,LTD.

EM8400/8430

Power Recorder

PRODUCT FUNCTION

- It conducts on-line monitoring and recording of working current, voltage, frequency and power of single-phase or three-phase power systems. It is applied to fault troubleshooting and line maintenance of low-voltage lines and electrical equipment.

PRODUCT FEATURES

- The single-phase recorder has 1 current input channel and 1 voltage input channel. The three-phase recorder has 3 current input channels and 3 voltage input channels.
- The recording interval can be set by the user.
- It is equipped with a high-capacity lithium battery with a battery life of 48 hours when fully charged.
- It has an ultra-large storage capacity that can store 200,000 groups of data.
- It is provided with a USB communication interface and upper computer software, allowing recording results to be downloaded to computer for easy saving and analysis.

TECHNICAL SPECIFICATION

	EM8400	EM8430
Mode		

Power Supply	Rechargeable lithium battery DC3.7V 5200mAh		
Display Mode	2.8-inch TFT color LCD screen; Display area 58mm × 44mm		
Input Channels	2 channels (1 current, 1 voltage)	6 channels (3 current, 3 voltage)	
Voltage Measurement	Range: 0.01V ~ 600V;	Resolution: 0.01V	Accuracy: ± 1.5%rdg ± 5dgt
Current Measurement	Range: 1mA ~ 400A;	Resolution: 0.001A;	Accuracy: ±1.5%rdg±5dgt
Active Power Measurement	Range: 0.01mW ~ 240kW	Resolution: 0.01mW	Accuracy: ±1.5%rdg±5dgt
Apparent Power Measurement	Range: 0.01mVA ~ 240kVA;	Resolution: 0.01kVA	Accuracy: ±1.5%rdg±5dgt
Power Factor Measurement	Range: - 1.000 ~ 1.000;	Resolution: 0.001;	Accuracy: ±0.03
Frequency Measurement	Range: 45Hz ~ 65Hz;	Resolution: 0.01Hz;	Accuracy: ±1.5%rdg±5dgt
Storage Interval	1s ~ 99min, user-configurable		
Battery Life	48 hours		
Recording Time (External Power Supply)	1s interval: continuous recording for 50 hours		
	10s interval: continuous recording for 20 days		
	1min interval: continuous recording for 125 days		
Data Storage	200,000 groups (data will not be lost in case of power failure or battery replacement)		
Communication Interface	TYPE-C interface		
Download Speed	2MB/Min		
Power Frequency	50 / 60Hz		
Line Voltage	Circuit testing below AC600V		
Battery Level	5-level display; 0 level indicates battery voltage ＜3.4V, reminding timely charging		
Rated Current	Approx. 100mA with backlight off; Max. 170mA with backlight on		
Working Temperature & Humidity	- 20℃ ~ 50℃; below 80% RH; (Error influence is 1% when temperature is below - 10℃ or above 40℃)		
Clamp Jaw Size	32mm × 42mm	32mm × 42mm	
Host Dimensions	170mm × 87mm × 48.5mm		
Weight	Approx. 1.6kg (including accessories)	Approx. 2.21kg (including accessories)	
Safety Standards	IEC1010-1, IEC1010-2-032, Pollution Degree 2, CAT Ⅲ(600V), IEC61326 (EMC Standard)		

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

Accessories	Host*1PC; Current transformer*1PC(EM8400) Current transformer*3PCS(EM8430) Voltage input wires*2PCS(EM8400) Voltage input wires*4PCS(EM8430) Data cable*1PC; Power adapter*1PC; Tool bag*1PC

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