

FR2020 Three-phase Digital Phase Voltammeter



I . Characteristic

FR2020 three-phase digital phase voltammeter, also known as multi-function three-phase digital phase voltammeter, is a high-quality, multi-function, high-precision, Intelligent, portable hand-held measuring instrument. It is widely used in electric energy measurement, electricity inspection, power inspection, meter installation, power connection and relay protection, differential detection, start-up test, industrial and mining enterprises, scientific research institutions and other departments. The instrument test is accurate, fast, simple, stable and reliable.

FR2020 three-phase digital phase voltammeter can not only directly measure AC voltage value, AC current value, phase and power frequency between voltages, currents, and voltages and currents, but also have other measurement and judgment functions. The judgment of current and capacitive circuit, checking the wiring group of the transformer, and checking whether the electric energy meter is connected correctly is an ideal instrument for grasping the power usage and checking the secondary circuit.

The FR2020 three-phase digital phase voltammeter consists of a host, a current clamp, a test lead, and a protective cover. It stores 500 sets of data at the same time, and has the function of static data storage. With historical data reading, viewing, saving, reporting, printing and other functions.

II . Technical Specification

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| Features | Measure three-phase AC voltage, current, phase between voltages, phase between currents, phase between voltage and current, frequency, phase sequence, active power, reactive power, apparent power, power factor, current vector sum, and identify transformer wiring groups, Inductive and capacitive circuits, test the secondary circuit and bus differential protection system, read out the phase relationship between each group of CTs in differential protection, check whether the wiring of the watt-hour meter is correct or not, and repair line equipment, etc. |
| Power supply | 3.7V lithium rechargeable battery |

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| Power consumption | 250mA max | | |
| Display mode | LCD color display, 72×55mm | | |
| Meter size | Length, width and thickness: 187*119*48mm | | |
| Jaw size | Φ8mm | | |
| Voltage range | AC 0.00V~600V | Resolution: 0.01V | Accuracy: ±0.5%FS |
| Current range | AC 0.0mA~20.0A | Resolution: 0.1mA | Accuracy: ±0.5%FS |
| Phase range | 0.0°~360.0° | Resolution: 0.1° | Accuracy: ±1° |
| Frequency range | 45.00Hz~65.00Hz | Resolution: 0.01Hz | Accuracy: ±0.5Hz |
| Active power range | 0.0W~12kW | Resolution: 0.1W | Accuracy: ±(3%rdg+3dgt) |
| Reactive power range | 0.0W~12kVAR | Resolution: 0.1VAR | Accuracy: ±(3%rdg+3dgt) |
| Apparent Power Range | 0.0W~12kVA | Resolution: 0.1VA | Accuracy: ±(3%rdg+3dgt) |
| Power factor range | -1~+1 | Resolution: 0.001 | Accuracy: ±0.03 |
| Current vector sum | 0mA~60.0A | | |
| Phase sequence | Positive phase: U1, U2, U3 or I1, I2, I3 cursors flash sequentially from left to right Inverted: U1, U2, U3 or I1, I2, I3 cursors flash sequentially from right to left | | |
| Detection rate | About 2 seconds/time | | |
| Data retention | During the test, press the HOLD key to keep the data, and the "HOLD" symbol will display | | |
| Data storage | 500 groups | | |
| Silicone protective cover | Have | | |
| USB interface | USB interface, the stored data can be uploaded to the computer, which is convenient for analysis and management of data | | |
| Automatic shut-down | The meter shuts down after about 15 minutes of inactivity | | |
| Backlight function | Yes, suitable for dark places and night use | | |
| Voltage detection | When the battery voltage is lower than 3.2V, the low battery voltage symbol will be displayed to remind you to charge in time | | |
| Instrument quality | Host: 380g (with battery) | | |
| | Needle-nose current clamp: 180g×3 | | |
| | Test line: 190g | | |
| Voltage test lead length | 1.5m | | |
| Current clamp wire length | 2m | | |
| Working temperature and humidity | -10℃~40℃; below 80%Rh | | |
| Storage temperature and humidity | -10℃~60℃; below 70%Rh | | |
| Input resistance | Test voltage input impedance: 1MΩ | | |
| Pressure resistance | Withstand 1000V/50Hz sine wave AC voltage between instrument circuit and enclosure for 1 minute | | |
| Isolation | Between instrument line and shell ≥100MΩ | | |
| Structure | Shell insulation | | |
| Suitable for safety | IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, pollution degree 2 | | |

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| regulations | |
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III. Packing List

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| Instrument | 1 set |
| Current clamp | 3 |
| USB communication cable | 1 |
| Monitoring software (CD-ROM) | 1 piece |
| Instrument box | 1 |
| Charger | 1 |
| Test line | 4 (1 each of yellow, green, red and black) |
| Manual, Warranty | 1 set |

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