

GF311

THREE CHANNEL MULTI-FUNCTION WATT & PHASOR METER

GF311 phasor meter is one ideal tool of checking phasor on site, check power system three phase voltage phase sequence(U1 U2 U3), display phase shift diagram, it can measure voltage,current, power, frequency, harmonics etc. Suite for 3 phase 4 wire, 3 phase 3 wire, 1 phase 2 wire and 1 phase 3 wire. This model phase angle meter is the best power engineering commission device for substation. It can be applied to electric power dispatching center, relay protection department or relay protection in power plant. Its electric accuracy class makes it suitable for petroleum, railways and the iron and steel industries also.

Features

1. Wide measuring range;
2. Storage 500groups data;
3. Display vector map directly;
4. High accuracy, good stability;
5. Range switches automatically;
6. With PC management software;
7. Software calibration technology;
8. DSP digital signal processing chip;
9. Horizontal liquid crystal big screen 6 inch color TFT;
10. All electrical parameters are displayed on one screen;
11. Small volume, light weight and the operation is simple, convenient;
12. This phasor can measure is 1 mA, 2 mA above can display vector diagram;



Functions

1. Measuring phasor of U & I;
2. Measuring phasor of I1 & I2 & I3;
3. Check U1 U2 U3 phase sequence;
4. Measuring 2-64 times harmonics;
5. Measuring phasor of U1 & U2 & U3;
6. Check the wiring of the kWh meter correct;
7. Simultaneously measuring three channel current;
8. Simultaneously measuring three channel voltages;
9. Measuring frequency, power factor, phase shift etc;
10. Measuring active power, reactive power, apparent power;

Parameters

| Electrical parameters | |
|-------------------------------|--|
| Accuracy class | 0.2% or 0.5% |
| Power supply | AC 85-265V 50/60Hz or Li-battery 5000mAh |
| Communication Port | RS232 |
| Warming-up time | < 5min |
| Power consumption | ≤5VA |
| Voltage measurement | |
| U1, U2, U3 Range | 0-500V; three channel |
| Resolution | 0.001V |
| Accuracy | 0.2% |
| Harmonic | 2-64 times |
| Current measurement | |
| I1, I2, I3 Range | 1mA-10A, 10mA-100A, 20mA-200A, 50mA-500A; three chan |
| Resolution | 0.5mA |
| Accuracy | 0.5% |
| Harmonic | 2-64 times |
| Active power measurement(P) | |
| Active accuracy | 0.2% or 0.5% |
| Reactive power measurement(Q) | |
| Accuracy | 0.5% or 1% |
| Apparent power measurement(S) | |
| Accuracy | 0.2% or 0.5% |
| Phase measurement | |
| Range | 0°-359.9° |
| Resolution | 0.01° |
| Accuracy | 0.1° |
| Frequency measurement | |
| Range | 45-65Hz |
| Resolution | 0.001Hz |
| Accuracy | 0.005Hz |
| Power factor measurement | |
| Range | -1 to 0 to +1 |
| Resolution | 0.0001 |
| Accuracy | 0.005 |
| Vector | Yes |
| LCD | 6 inch color TFT LCD |

Mechanical parameters

| | |
|-------------------------|-------------------------------------|
| Dimensions (WxDxH) (mm) | 245x162x60 |
| Weight (kg) | 1 (mains) 6.5 (appendix and box) |

Environmental conditions

| | |
|---------------------|---------------|
| Working temperature | -10°C to 55°C |
| Working humidity | 5%-85%RHD |
| Storage temperature | -40°C to 70°C |
| Storage humidity | ≤95%RHD |

Accessories