

The ME238 Three-phase Multifunctional Smart Meter - Energy's new Best Friend



This three-phase multifunctional smart meter is a highly versatile device designed for accurate and reliable measurement of electrical parameters in industrial and commercial environments. It supports both 3-phase 3-wire (3PH3W) and 3-phase 4-wire (3PH4W) systems, making it suitable for a wide range of applications. With its compact 96x96mm panel design and a 3.8-inch LCD segment code display, the ME238 allows for easy and clear monitoring of electrical data such as current, voltage, power, energy, power factor, and harmonics. The meter weighs just 259g and has dimensions of 8.1x8.1x3 cm, ensuring that it fits easily into most setups.

The ME238 is compatible with 333mV CTs. Its flexible Rogowski coils can be connected through an RJ45 terminal, making for an uncomplicated installation process. The meter supports a broad current measurement range, from 0.005A to 6000A, depending on elected sensor model used. Recommended sensors include STP-5, STP-100, STP-600, STP-2.5K, and STP-6K, which offer flexibility on various applications.

ME238 provides comprehensive data readings, including phase and line voltages, current, active/reactive/apparent power, energy import/export, and harmonic data. The device features a fast data refresh rate of 500ms and supports the Modbus RTU protocol for communication via an RS485 interface. This allows for seamless integration with other systems for remote monitoring and control.

In addition to measurement capabilities, the ME238 includes a relay output with both normally open and normally closed contacts, which can be controlled via the RS485/Modbus protocol. It also provides two digital switch inputs and an energy pulse output for active energy monitoring.

With an accuracy of $\pm 0.5\%$ for current measurements and 0.2% for voltage measurements, the ME238 meets IEC62053 standards for energy measurement. The meter is built to operate in a range of environments, with an operating temperature range of -25°C to $+60^{\circ}\text{C}$, and is certified for electromagnetic compatibility. With its ease of installation, comprehensive measurement features, and high reliability, the ME238 is an ideal solution for efficient electrical monitoring in industrial and commercial applications.

Some beneficial features include the RJ45 easy connection, versatile compatibility, a wide measurement range, ease of installation, accurate data measurement, fast data refresh rate, Modbus RTU communication, relay and digital outputs, and energy pulse output. This, coupled with a competitive market price, makes the ME238 an efficient and affordable device not to be overlooked.

For more information call Mimic Cape Switchboard: 021-551-8185.