# Power Monitoring and Protection Panel

- Ready to Install Panel
- Configurable 14 power monitoring parameters
- Real time trip protection during abnormal power conditions
- Auxiliary for trip detection
- Status indication through LED indicators
- Remote configuration and monitoring via cloud platform
- Remote firmware update support

## ▪ Technical Specifications

| | Parameters | Specifications |
|---|---|---|
| **Power Supply** | Rated Voltage | 230 VAC, 50 Hz |
| | Nominal Current | 500 mA |
| | MCB Rating | 40 A |
| | | |
| **Communication** | Mode | Wi-Fi (2.4 GHz) / Ethernet LAN / LTE 4G |
| | Protocol | JSON over MQTT |
| | Cloud Software | EazyIoT Platform |
| | | |
| **General Characteristics** | AC Voltage | 0-500 VAC, 50-60 Hz – Single Phase |
| | AC Current | 60A Current Transformer |
| | Digital Inputs [2 Nos] | Dry Input: NO-NC type |
| | Analog Input [1 Nos] | 0 – 20 VDC |
| | Output [1 Nos] | Shunt Trip Relay |
| | Storage Memory | 2 KB for offline event and meter logs records<br>Event Records – 1200<br>Meter data records - 1000 |
| | RTC Battery Backup | 5 Year Battery Backup |
| | | |
| **Electrical Parameters** | AC Voltage | Range 50 - 500 V |
| | AC Current | Range 0.1 – 40 A |
| | Frequency | Range 45 – 60 Hz |
| | Power Factor | Range -1 to 1 |
| | kW, kWh, kVA, kVAh | 1% Accuracy |
| | VTHD & ITHD | Up to 63 harmonics are considered in THD % |
| | Leakage Current | Up to 100 mA |
| | Earth Voltage | Up to 50 V AC |
| | | |
| **Mechanical Specifications** | Mounting | Wall Mounted |
| | Dimensions (W x D x H) | 220 x 90 x 250 mm |
| | | |
| **Firmware and Maintenance** | Remote Firmware Update | Supported |
| | Configuration Method | Cloud-based (EazyIoT Platform) |
| | | |
| | **Model** | **Description** |
| **Ordering Information** | Power Monitoring and Protection Panel | Three Phase Power Monitoring and Protection with Wi-Fi Connectivity |

- **Features**

| Feature | Description |
|---|---|
| Early Detection | <ul><li>Risk of arcing</li><li>Short circuit</li><li>Over Current</li><li>Reverse current</li><li>Earth Leakage</li><li>Over Voltage</li><li>Under Voltage</li><li>Phase Loss</li><li>Phase Reversal</li><li>Neutral Loss</li><li>Voltage Quality</li><li>Low Power Factor</li><li>High voltage and/or current harmonics</li><li>Inrush current</li><li>Unbalanced load</li><li>Asymmetric power supply</li></ul> |
| Isolation | <ul><li>Short Circuit</li><li>Arc fault</li><li>Over Current</li><li>Earth Leakage</li><li>Over Voltage</li><li>Under Voltage</li><li>Phase Loss</li><li>Neutral Loss</li><li>Phase Reversal</li><li>Critical Voltage Harmonics</li></ul> |
| OTA Firmware Upgrade | <ul><li>The firmware of the device can be updated from the software</li></ul> |
| Offline Storage | <ul><li>Offline fault and trip events storage</li><li>Offline meter logs storage</li></ul> |
| Wi-Fi Configuration | <ul><li>Easy Wi-Fi configuration settings via Mobile phone/ PC</li></ul> |

- **Dimensions (All dimensions are in mm)**



FRONT VIEW WITH CLOSED DOOR

SIDE VIEW