

Mk32H

ABACUS - Advanced Single Phase DIN-Rail Meter

Designed for residential use, Mk32H is a DIN Rail single phase meter with integrated 100A UC3 compliant relay. It is able to operate in either STS compliant prepaid mode or post-paid mode. Mk32H can operate with the CIU (Customer Interface Unit) - HD18 wirelessly as a split meter as well as operate with gateway - GW30 and the Head End System - GridLynk as a complete AMI system.

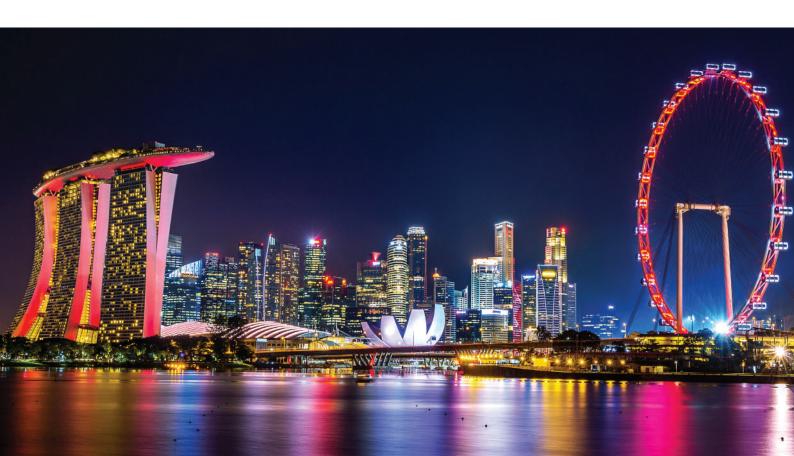












Main Functionalities

• IEC 62052-11

| Standards & Compliance | • IEC 62053-21 • IEC 62053-23 • IEC 62054-41 |
|------------------------|---|
| Measurement | 1 Phase 2 Wire Neutral Current Measurement (Optional) 1 element 4 quadrants Import/Export/Absolute Wh, varh and VAh Per quadrant: varh W, var, VA, Vrms, Irms Power factor, frequency |
| Multi TOU Tariff | Up to 8 separate import and export registers Daily, weekly, monthly, yearly and special days Up to 48 previous billing periods plus billing totals Block maximum demand Time of maximum demand |
| Prepayment | Configurable prepayment and post-payment mode Three levels for remaining credit alarm Emergency credit, friendly time and friendly days support STS Compliant |
| Load control | Over current control support Power & current limit support Internal disconnect relays (80A or 100A) Re-connect/Dis-connect by locally or remotely |
| Load Profile | Up to 8 channels and 2 independent surveys Interval programmable from 1 to 60 minutes Energy, instantaneous readings channel sources Average/minimum/maximum values for interval duration |
| Communication Ports | RF (260MHz - 930MHz) - Communicate with Gateway (GW30) RS485(2-wire) RF 433 MHz - Communicate with CIU (User Interface Unit) Optical Port: Comply with IEC62056-21standard |
| Security | Multi-level security (username and password including encrypted log-in) Up to 10 independent security levels Up to 8 individual users |

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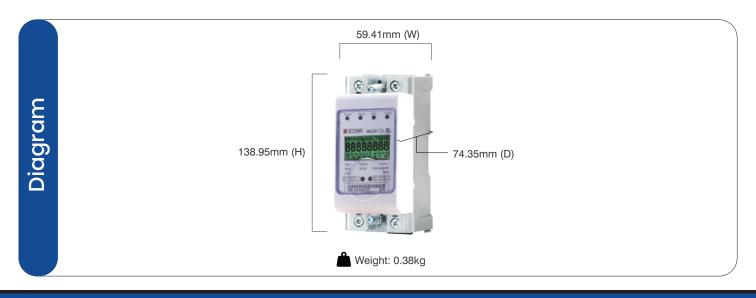
Additional Functionalities

| Event | Fraud detection log (Meter cover & terminal cover open detect with and without power, module cover open detect, current reverse, magnetic detect, neutral current mismatch etc.) Failure detection log (Memory error, relay error, battery low voltage, clock invalid etc.) Power quality event log (Under voltage / Over voltage(Sag/Swell), Over current/current imbalance, Power up/down, etc.) Security event log (Parameters change, clock adjust, etc.) Standard event log (Power up/on, time synchronization, etc.) |
|------------------------------|--|
| Anti Tamper | Terminal cover, meter cover and module cover sealing Self-protection under Overload control, Abnormal voltage control, Arrearage control, Tamper control, Malfunction control, Fire disaster control etc. |
| Alarm | Alarms with LED/Buzzer and LCD on CIU Alarm can be configurable |
| Tariff Expense (Optional) | Up to 10 steps tariff Up to 5 steps Monthly service charge Up to 5 kinds subsidy Up to 3 kinds fixed charge Up to 5 kinds levies charge Up to 3 kinds VAT charge |
| Communication Protocol | International open protocol IEC62056-21 E mode DLMS HDLC DLMS and TCPIP DLMS, Support suite 0 and suite 1 STS/CTS Token and SMS LLS support 3 level passwords for local and remote communication HLS support auth and encryption for local and remote communication IDIS Compliant |
| Billing Record | Up to 12-month billing data Calculate monthly net consumption of energy Up to 31 days daily data Calculate daily net consumption of energy |
| Firmware Upgrade | The firmware can be upgraded via local interface and WAN interface. Schedule activity image support |
| CIU unit | The meter can communicate with the CIU via RF or PLC Parameters transfer Credit token, Key change token, clear balance token, clear tamper token, set power limit token, test token etc. Fully complies with STS standard |

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Technical Specification

| Rated Nominal Voltage | 220V - 240V |
|--|--|
| Operating Voltage Range | 0.5Un to 1.2Un |
| Rated Current & Starting Current | 5(100)A, 5(60)A |
| Rated Frequency | 50Hz, 60Hz ±5% |
| Pulse Constant (Configurable) | 1000imp/kWh 1000imp/kvarh (Default) |
| Accuracy Class | CI.1 for Active CI.2 for Reactive |
| Power Consumption | Voltage circuit ≤2 W or 10VA, Current circuit ≤2.5VA |
| Battery and Life | Internal Lithium Battery (3.6V) Backup Time: 5 years without battery (lithium Battery) |
| Specified Operation Range Operating Range Limit | -25°C to +55°C, Humidity is up to 95% -40°C to +70°C Humidity is up to 95% |
| EMC Performance | Impulse voltage > 6kV |
| Protection Class | IP54 comply with IEC60529 Insulation grade II |
| Housing Material | Polycarbonate with non-conductive, high impact, smooth finish, durable, non-flammable, UV stabilized, UV resistant and high resistance to weathering |



FDMP

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