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Mk32H

ABACUS – Class 1 and Class 2

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 EDMI CIU (Customer Interface Unit) - HD18 wirelessly as a split meter as well as operate with EDMI gateway - GW30 and the EDMI Head End System - MultiDrive as a complete AMI system.



Key Features









RF WIRELESS TRANSCEIVER

NEUTRAL CURRENT MEASUREMENT SMART READY

Mk32H Factsheet | MKT-FS-020 Rev 03

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Advanced Single Phase DIN Rail Meter

Standards and Compliance

- Class 1 and Class 2
- IEC 62052-11, 62053-21, 62053-23, 62055-41

Measurement

• 1 phase 2 wire (optional neutral current measurement)

Voltage

- Nominal voltage: 220V 240V
- Operating range: 0.5Un to 1.2Un
- Withstand range: 0V to 456V
- Impulse voltage: 6kV

Current

- WC range: 5/60A,10/60A, 5/100A,10/100A
- WC limit: 30 x Imax for 0.5 cycles
- Phase current measurement sensor: Shunt
- Neutral current measurement sensor CT

Terminal

Terminal cross-section: 63.59mm²

Power Consumption

- Voltage circuit: < 2W, 10VA @ Vn
- Current circuit: <2.5VA @ In

Frequency

• 50Hz/60Hz

Inputs/Outputs Configuration

- Up to 4 x LED indicators
- Up to 2 x outputs

Relay

• Internal disconnect relays (80A or 100A)

Battery

- Internal lithium battery (3.6V)
- Backup time: 5 years without power (lithium battery)

Real-time Clock

 Precision clock accuracy: <5ppm (15 seconds per month) at 23°C

Data Memory

• 2MB of non-volatile memory

Display

- 8 Characters of seven-segment display (7.8mm x 3.8mm) with 4 ID digits (3.3mm)
- · Display available without main power
- Option for backlight

Measured Values

- 1 element 4 quadrantsImport/Export/Absolute Wh, varh and VAh
- Per guadrant: varh
- W, var, VA, Vrms, Irms
- Power factor, frequency

Load Survey/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

Time of Use

- Up to 8 rates plus unified rate
- 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

Calendar

Supports Daylight Saving Time

Tamper Detection and Alarms

- Provision for sealing with conventional wire or plastic seals
- Reverse current detection
- · Line and neutral current unbalance detection
- Meter cover and terminal cover detection available without main power
- · Faulty load relay detection
- · Overload detection

Magnetic tamper detection (optional)

Alarms are stored in event logs

Security

- Multi-level security (username and password including encrypted log-in)
- Up to 10 independent security levels
- Up to 8 individual users

Operation Mode

Postpaid/Prepaid

Communications

- Up to 2 independently working communication ports:
 Optical port: FLAG (IEC 62056-21)
 - RF (260MHz 930MHz) or RS485 (2-wire)
 - RF (20010172 930101172) OF R5485 (2-WI

Protocol

• EDMI command line

Environmental

- Specified operating range: -25°C to +55°C
- Operating range limit:
- -40°C to +70°C • Storage range limit:
- -40°C to +85°C
- Relative humidity:
- Up to 75% mean, 95% non-condensing for 30 days
- Ingress protection: IP54 (without suction)

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59.41mm (W) 138.95mm (H)

Weight: 0.38kg