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Mk7B

ATLAS – Class 1 and Class 2

Single Phase Smart Meter with Disconnect Feature

Designed for residential and commercial use, the Mk7B can operate in credit or prepayment mode. It has a 100 Amp relay for remote connect/disconnect of electrical services.



Key Features

















AMI READY

DISCONNECT RELAY MEASURE EVERYTHING

ANTI TAMPER

PER MODULAR COMMUNICATIONS

TIONS UPGRADEABLE

ABLE PRE

PREPAYMENT

Mk7B Factsheet | MKT-FS-034 Rev 00

Mk7B

ATLAS - Class 1 and Class 2

Single Phase Smart Meter with Disconnect Feature

· Accuracy (internal) within 15

seconds per month at 23°C

Data Memory

Screen ID is full

Display digit size:

9.3mm x 4.35mm

parameter

Up to 60 user-defined

screens of any meter

Definable enunciators

· Display available even

without main power

Option for backlight

Measured Values

varh and VAh

Fundamental Wh

phasor angles

(THD)

Sag/Swell

excursion

· 1 element 4 quadrants

• W, var, VA, Vrms, Irms

• Power factor, frequency,

• Supports ripple control/AFLC

Power Quality Indication

• Total Harmonic Distortion

- Records time/date/phase

duration/average and worst

- Programmable trigger levels

Load Survey/Profile

• Over 7200 days (20 years)

storage (2 channels, 30

Up to 32 channels and 2

Intervals programmable from

independent surveys

minute intervals)

1 to 60 minutes

- 5 Cycle resolution

Import/Export/Absolute Wh,

memory

Display

• 2.1 MB of non-volatile

Large 7 segment display

alphanumeric. 5 digits

Standards and Compliance Real-time Clock

- Class 1 and Class 2
 (MID Class B and Class A)
- IEC 62052-11,62053-21, 62053-23
- AS 62052.11, 62053.21, 62053.23

Measurement

1 phase 2 wire

Voltage

- Nominal voltage: 220V – 240V
- Operating range: 176V – 276V
- Withstand: 0 288V
- Burden: IEC 62053-61 compliant

Current

- WC range: 5/100A, 10/100A
- WC limit: 7000A for 3 cycles
- Burden: <0.5VA/phase

Frequency

• 45Hz – 65Hz

Relay

100A IEC 62055-31
 Annex C UC3

Inputs/Outputs Configuration

- Built-in S0 of 27V, 27mA maximum or Relay output of 240V, 2A
- 2 Programmable LED indicators
- Programmable output
 pulse width: 1ms to 100ms
- Further I/O expansion via PODs

Battery

- Internal battery
- Option for external battery
- Backup time of 10 years without power (Lithium Battery)

- Energy, instantaneous readings, pulsing inputs as channel sources
 - Ability to store average/ minimum/maximum values for interval duration

Time of Use

- Up to 8 rates plus unified rate
 Up to 32 separate import and export registers
- Daily, weekly, monthly, yearly and special days
- Up to 200 programmable special days
- Up to 61 previous billing periods plus billing totals
- Block or rolling maximum demand
- Time of maximum demandEnergy, pulsing inputs
- Calendar
- Supports Daylight Saving time
- Supports Gregorian or Persian calendars

Tamper Detection and Alarms

- Provision for sealing with conventional wire or plastic seals
- Reverse current detection
 Advanced tamper detection and logging
- Pre-programmed alarms for meter self-check
- Alarms trigger LEDs, enunciators, relay outputs or
- communications event

 Alarms are stored in event
- logs
- Option for magnetic tamper detection

Security

- Multi-level security (username and password including encrypted-login)
- Up to 7 independent security levels
- Up to 6 individual users

Prepayment

Credit or debit operation

180mm (L)

- Energy or currency based
- STS token compatible (IEC 62055-31)
- Multiple energy sources
- 8 rates per source
- External debt
- prepayment x 2
- Minimum charges, standing charges and emergency credit
- Configurable warnings
 and indicators

Communications

- Up to 2 independently working communication ports:
- Optical port: FLAG (IEC 62056-21) or ANSI Type 2 (ANSI C12.18)
- POD-based interface with options for Cellular, RF and PLC communication technologies

Protocol

EDMI command line
DLMS

POD System

- Interchangeable PODs for I/O and communications
- Sealable separately
 Bobust
- TCP/UDP/IP/PPP GPRS
- Standard POD option includes: - GPRS modem with internal
- antenna + ZigBee SEP
- Silver Spring Network Gen 4
- FlexNet
- Trilliant Gen 4
- Ingenu
- HPGP PLC
- Other combinations including RS-232 and RS-485

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131mm (W)

붬 Weight: 0.75kg

Software

- EDMI EziView software available for meter programming and reading (Windows® compatible)
- EDMI MultiDrive software available for large scale AMI and AMR solutions (Windows® compatible)
- Supported by many popular third-party multi-vendor AMR systems

Environmental

- Specified operating range: -25°C to +60°C
- Operating range limit: -40°C to +70°C
- Storage range limit: -40°C to +80°C
- Relative humidity: Up to 75% mean, 95% noncondensing for 30 days
- Ingress protection: IP54 (without suction)