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Mk7C

ATLAS - Class 1 and Class 2

Single Phase Smart Meter with Disconnect and Reconnect Feature

Built on the advanced Atlas metering platform, the Mk7C is a single phase meter with an integrated 100A UC3 compliant relay which allows disconnection and reconnection of electrical services remotely.



Key Features

















AMI READY

MEASURE EVERYTHING

LARGE LCD DISPLAY

ANTI TAMPER

MULTIPLE COMMS OPTIONS

UPGRADEABLE

LARGE DATA STORAGE



Mk7C ATLAS - Class 1 and Class 2

Single Phase Smart Meter with Disconnect and Reconnect Feature

Standards and Compliance

- Class 1 and Class 2
- IEC 62052-11, 62052-21, 62052-31, 62053-21, 62053-23, 62054-21
- AS 62052.11, 62052.21, 62053.21, 62053.23, 62054-21, 62052-31
- NMI M6

Measurement

1 phase 2 wire

Voltage

- Nominal voltage: 220V 240V
- Operating range: 176V 276V
- Withstand: 7Cx3 Up to 456V
- Burden: IEC 62053-21/23 compliant

Current

- WC range: 5/100A, 10/100A
- WC limit: 7000A for 3 cycles
- Burden: <0.5VA/phase
- Overload Current: 128A

Frequency

• 50Hz \pm 6%

Relay

- 100A IEC 62055-31 Annex C UC3
 Post-relay voltage detection hardware capable
- Enhanced relay switching time ≤10s
- May be ordered without a disconnect relay

Inputs/Outputs Configuration

- Up to 4 I/O total in 2 isolated groups (maximum 1 relay output)
- Options include: Passive/Active inputs, S0/Relay outputs
- Passive input voltage: 5V, 12V, 48V
- Active input voltage: 16V (common ground)
- S0 output: 27V, 27mA maximum
- Relay output: 240V, 2A

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(Singapore)

Singapore 768724

- 2 Programmable LED indicators
- Programmable output pulse width: 1ms to 100ms

Battery

- Internal battery (optional)
- Backup time: 10 years without power (Lithium Battery)

Real-time Clock

- Accuracy (internal) within 15 seconds per month at 23°C
- Internal clock or line synchronisation

Data Memory

• 4.2 MB of non-volatile memory

Display

- Large 7 segment display with 9.3mm x 4.35mm digit size
- 8 digit numerical value field
- 4 digit description field
- Up to 60 user-defined screens of any meter parameter
- Definable enunciators
- Display available without main power (requires internal battery option)

Measured Values

- 1 element 4 quadrants
- Import/Export/Absolute Wh, varh and VAh
- Fundamental Wh
- W, var, VA, Vrms, Irms
- Power factor, frequency, phasor anglesSupports ripple control/AFLC

Power Quality Indication

- Total Harmonic Distortion (THD)
- Option for live waveform display
- Sag/Swell
 - 5 Cycle resolution
- Records time/date/phase/duration/ average and worst excursion
 Programmable trigger levels
- Load Survey/Profile
- Over 10,000 days storage (2 channels,
- 30-minute intervals)Supports Advanced Demand Management (ADM) with prioritised

(United Kingdom)

Form 1, 17 Barley Wood

Hook, Hampshire RG27 9AXA, United Kingdom

Business Park, Bartley Way,

rules

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Level 7, 51 Alfred Street.

Fortitude Valley, Queensland

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Australia 4006

Visit our website at www.edmi-meters.com to find our other locations.

AMI Ready

- Up to 32 channels and 4 independent surveys
- Intervals programmable from 1 to 60
 minutes
- 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 demand
- Energy, pulsing inputs

Calendar

- Supports Daylight Saving timeSupports 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 selfcheck
- Alarms trigger LEDs, enunciators, relay outputs or communications event
- Alarms are stored in event logs
- Configurable threshold; 3D magnetic tamper detection

Security

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(USA)

- Multi-level security (username and password including encrypted log-in)
- Up to 7 independent security levelsUp to 6 individual users
- AES128 bit encryption

One City Plaza, Suite 1301, 421 Fayetteville Street,

Raleigh, North Carolina 27601 United States

Communications

163.5mm (H)

• Up to 3 independently working communication ports:

🚔 Weight: 1.1kg

134mm (W)

...

51mm (D)

- Optical port: FLAG (IEC 62056-21) or ANSI Type 2 (ANSI C12.18)
- RS-485 multi-drop (2 or 4-wireRJ45 or wire screw terminal)
- RS-232 with modem power supply

Protocol

• MODBUS

Software

• DIMS

· EDMI command line

• EDMI AMI 2.0 (Storm)

(compatible with the majority of modems in the market)

· EDMI Storm mobile software available

for meter programming and reading

EDMI Energy Cloud software available

for large scale AMI and AMR solutions

Supported by many popular third-party

Up to 75% mean, 95% non-condensing

multi-vendor AMR systems

Specified operating range:

· Limit range of operation:

Ingress protection: IP54

Environmental

-25°C to +60°C

-40°C to +70°C

Storage range limit:

-40°C to +80°C

· Relative humidity:

Protective Class II

Impulse Test: 10kV

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Surge Test: 5kV

for 30 days

Safety

· Supports Function Based Setup