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Mk10A

ATLAS – Class 1 and Class 2

Three Phase CT/WC Smart Meter

The Mk10A is another addition to the Atlas series which enhances the Mk10 meter with additional communications capabilities for use in Power Quality indication, advanced commissioning functionalities and larger memory storage.



Key Features















AMI READY

CT-WC CONNECTED

LARGE DATA STORAGE

LARGE LCD DISPLAY

MEASURE EVERYTHING

UPGRADEABLE

UP TO 4 IO OPTIONS

Mk10A

ATLAS - Class 1 and Class 2

Three Phase CT/WC Smart Meter

210mm (H)



Communications

RS-232 port

Protocol

MODBUS

Software

MV-90[™] compatible

· EDMI command line

communication ports:

• Up to 3 independently working

ANSI type 2 (ANSI C12.18)

modems in the market)

or 2-wire screw terminal)

Optical port: FLAG (IEC 62056-21) or

- RS-232 with modem power supply

(compatible with the majority of

- RS-485 multi-drop (2 or 4-wire RJ45

Option for passive RS-232 or second

EDMI EziView software available for

meter programming and reading

· EDMI MultiDrive software available for

large scale AMI and AMR solutions

Supported by many popular third-party

(Windows® compatible)

(Windows® compatible)

multi-vendor AMR systems

Specified operating range:

Up to 75% mean, 95% non-

· Ingress protection: IP54 (Outdoor),

• Salt spray resistant (IEC 60068-2-11)

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EDMI

condensing for 30 days

· Limit range of operation:

Environmental

-25°C to +60°C

-40°C to +70°C

-40°C to +80°C

· Relative humidity:

UL50 (3R)

Storage range limit:

Standards and Compliance

- Class 1 and Class 2
- IEC 62052-11, 62052-31, 62053-21, 62053-23
- AS 62052-11, 62053-21, 62053-23
- EN 50470-1, 50470-3
- NMI M6

Measurement

- 1 phase 2 wire
- 3 phase 4 wire
- 3 phase 3 wire

Voltage

- Nominal voltage: 220V 240V
- Operating range: 0.8UN to 1.15Un
- Withstand range: 0V to 290V

Current

- CT range: 1/6A, 5/20A
- CT limit: 20 x Imax for 0.5 seconds
- WC range: 5/100A, 10/100A
- WC limit: 7000A for 3 cycles
 Burden: <0.5VA/phase

- **Power Consumption**
- Voltage burden: IEC 62053-61
 compliant
- Current burden: <0.5VA/phase

Frequency

• 45Hz - 65Hz

Inputs/Outputs Configuration

- Up to 4 x I/O total in 3 isolated groups (maximum 2 relay outputs)
- Option include: Passive/Active input, S0/BOSFET/relay output
- Passive input voltage: 5V, 12V, 48V, 110V, 240V
- Active input voltage: 12V (common ground)
- BOSFET output: 240V, 100mA maximum
- S0 output: 27V, 27mA maximum
- Relay output: 240V, 2A
- 2 Programmable LED indicators

EDMI Limited

47 Yishun Industrial Park A,

(Singapore)

Singapore 768724

Programmable output pulse width: 1ms to 100ms

EDMI Pty Ltd

Level 7, 51 Alfred Street, Fortitude Valley, Queensland

(Australia)

Australia 4006

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

Battery

- Internal lithium battery (3V)
- Replaceable external battery
- Backup time: 10 years without power

Real-time Clock

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

Data Memory

2.1MB of non-volatile memory

Display

- 8 Characters of seven segment display (10.7mm x 4.67mm)
- 6 Digit description field
- Display available without main power

Measured Values

- Import/Export/Absolute Wh, varh and VAh
- Fundamental Wh
- W, var, VA, Vrms, Irms
- Power factor, frequency, phase angle
- Supports ripple control/AFLC

Power Quality Indication

- Total Harmonic Distortion (THD)
- Unbalance (sequence components)Sag/Swell
 - 5 Cycle resolution
 - Records time/date/phase/duration/ average and worst excursion
- Programmable trigger levels

LCD Configuration

- Up to 60 user-defined screen of any meter parameter
 Up to 4 display set
- Definable enunciators
- Definable chanciator
- Load Survey/Profile
- AMI ready
- Up to 32 channels and 2 independent surveys
- Interval programmable from 1 to 60
 minutes

EDMI Europe Limited

(United Kingdom)

Hook, Hampshire RG27 9AXA, United Kingdom

Form 1, 17 Barley Wood Business Park, Bartley Way,

- Over 3600 days (10 years) storage (2 channels, 30-minute intervals)
- Energy, instantaneous readings, pulsing input 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 and 8 seasons
- Up to 61 previous billing periods plus billing totals
- Block or rolling maximum demand
- Energy, pulsing inputsTime of maximum demand
- · Time of maximum demand

Calendar

- Supports Daylight Saving timeSupports Gregorian or Persian
- calendars
- RTC and frequency synchronisation

Tamper Detection and Alarms

- Provision for sealing with conventional wire or plastic seals
- Reverse current detection
- Advanced tamper detection and logging
- Case and terminal cover tamper
- Pre-programmed alarms for meter selfcheck
- Alarms trigger LEDs, enunciators, relay
 output or communications event
- Alarms are stored in event logs

Security

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

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