The EDMI range of innovative products includes digital meters, advanced infrastructure and energy management systems.

With over 30 years industry experience, we ensure all of our products are technologically proven and manufactured to the highest quality. The entire EDMI product range is reliable, upgradable and accurate.

The EDMI Atlas platform forms the core of each of the products in the EDMI smart metering system. Designed around a low power, yet powerful and flexible metering engine, all of the products share the same robust logging and communications functionality.
Mk10A

Advanced Three Phase Electronic Revenue Meter

Atlas Series — Class 1 and Class 2

Measurement
- Class 1 and Class 2
  [MID Class B and Class A]
  Compliance with IEC 62052-11, 62053-23, 62053-23
  Compliance with AS 62052.11, 62053.21, 62053.23

Voltage and Power Supply
- Nominal voltage: 220V – 240V
- Operating range: 180V – 290V
- Burden: <0.5VA/phase [Two Phase]
- Frequency range: 45Hz – 65Hz

Power Quality Indication
- Total Harmonic Distortion (THD)
- Unbalance (sequence components)
- Waveform download

 sack/SWELL
- Five cycle resolution
- Records time/date/phase/duration/average and worst excursion
- Programmable trigger levels

Inputs/Outputs Configuration
- Up to four I/O total in three isolated groups (maximum two relay outputs)
- Options include: passive/active inputs, S0/BOSFET/relay outputs
- Passive input voltage: 5V, 12V, 48V, 110V, 240V
- Active input voltage: 12V
- BOSFET Output: 24V, 100mA maximum
- SO output: 27V, 27mA maximum
- BOSFET Output: 240V, 100mA

Current
- CT Range: 1/6A, 5/20A
- CT Limit: 20 times Imax for
- CT Range: 1/6A, 5/20A
- WC Limit: 30 times Imax for
- WC range: 5/100A, 10/100A
- CT Limit: 20 times Imax for
- CT Range: 1/6A, 5/20A
- Burden: <0.5VA/phase

Environmental
- Nominal voltage: 220V – 240V
- Frequency range: 45Hz – 65Hz

Other Measured and Displayed Values
- Power: W, var, VA, VRMS, IRMS
- Δ Power factor, frequency, phasor angles
- Δ Absolute Wh, varh and VAh
- Δ Per quadrant Wh, varh and VAh
- Δ Import/Export Wh, varh and VAh
- Δ Three element four quadrant measured energy values
- Δ Salt spray resistant
- Δ Relative humidity: up to
- Δ Storage range: 0˚C to 70˚C
- Δ Limit range: 0˚C to 70˚C
- Δ Operating range: -25˚C to 60˚C
- Δ Display available without mains power
- Δ Display digit size: 10.7mm (H)
- Δ Large seven segment display
- Δ Large LCD display
- Δ ALarms are stored in event logs
- Δ Alarms trigger LEDs, relay outputs or meter self-check
- Δ Pre-programmed alarms for
- Δ Provision for sealing with
- Δ Up to six individual users
- Δ Up to seven independent
- Δ Multi-level security (username and password including

Power Supply
- Frequency range: 45Hz – 65Hz
- Burden: <10VA/phase @ Vn
- Nominal voltage: 220V – 240V

Time of Use
- AMI Ready
- 2.1 megabytes of non-volatile memory
- Over 7200 days (30 years)
- Storage (two channels, 30-minute intervals)
- Two independent surveys
- Energy instantaneous readings, pulsing inputs as channel sources
- Ability to store average/minimum/maximum values for interval duration

Load Survey/Profile
- Up to eight rates plus unified
- Up to 32 separate import and export registers
- Daily, weekly, monthly, yearly and special
- Up to 500 programmable special days
- Up to 61 previous billing periods plus billing totals
- Block or rolling maximum demand
- Energy, pulsing inputs
- Time of maximum demand

Security
- Multi-level security [username and password including encrypted log-in]
- Up to seven independent security levels
- Up to six individual users
- AES128 bit encryption

Tamper Detection and Alarms
- Provision for sealing with conventional wire or plastic seals
- Bypassing current and reverse current
- 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

Software
- EDMI EzView software available for meter programming and reading [Windows Vista/XP/2000]
- EDMI MultiDrive software available for large scale AMI and AMR Solutions [Windows Vista/ XP/2000]
- EDMI MultiDrive software available for large scale AMI and AMR Solutions [Windows Vista/ XP/2000]
- Supported by many popular third-party multi-vendor AMR systems

Battery Options
- Internal battery
- Replaceable external battery

Communications
- Three independently working communication ports
- Option for DLMS CSSEm
- Optical port: FLAD [IEC 60856-21] or ANSI Type 2 [ANSI C12.18]
- RS-232 with modem power supply [2G/3G supported]
- RS-485 multi-drop [two or four wire RJ45 or two wire Screw terminal] or second RS-232
- UDP/IPPPP/GPRS capable
- Compatible with ZigBee SEP 1.x.

EDMI Europe Ltd
The Grainger Suite
Dobson House
Regent Centre
Newcastle upon Tyne
NE3 3PF
United Kingdom

Tel: +44 (0)191 233 6322
Email: sales-europe@edmi-meters.co.uk
support-europe@edmi-meters.co.uk

www.edmi-meters.co.uk

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