

ADVANCED THREE PHASE ELECTRONIC REVENUE METER



ATLAS SERIES Class 1 & Class 2



















ADVANCED THREE PHASE ELECTRONIC REVENUE METER



MEASUREMENT

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

VOLTAGE & POWER SUPPLY

- Nominal Voltage: 220V 240V
- Operating Range: 180V 290V
- Burden: <10VA/phase @ Vn (3 Phase)
- Frequency Range: 45Hz 65Hz

CURRENT

- CT Range: 1/6A, 5/20A
- CT Limit: 20 times Imax for 0.5 seconds
- WC Range: 5/100A, 10/100A
- WC Limit: 30 times Imax for 0.5 cycles 7000A for 3 cycles
- Burden: <0.5VA/phase

MEASURED ENERGY VALUES

- 3 Element 4 Quadrant
- Import/Export Wh, varh and VAh
- Per Quadrant Wh, varh and VAh
- Absolute Wh, varh and VAh
- Phase A,B,C and Total

OTHER MEASURED & DISPLAYED VALUES

- Power: W, var, VA, Vrms, Irms
- Power Factor, Frequency, Phasor Angles

POWER OUALITY INDICATION

- Total Harmonic Distortion (THD)
- Unbalance (Sequence Components)
- Waveform Download

SAG/SWELL

- 5 Cycle Resolution
- Records Time/Date/Phase/Duration/Average & Worst Excursion
- Programmable Trigger Levels



.....

MEASURE EVERYTHING

INPUTS/OUTPUTS CONFIGURATION

- Up to 4 I/O Total in 3 Isolated Groups (Maximum 2 Relay Outputs)
- Options Include: Passive/Active Inputs, SO/BOSFET/Relay Outputs
- Passive Input Voltage: 5V, 12V, 48V, 110V, 240V
- Active Input Voltage: 12VBOSFET Output: 240V, 100mA maximum
- S0 Output: 27V, 27mA maximum
- Relay Output: 240V, 5A/2A
- 2 LED Indicators, Independent of I/O
- Programmable Output Pulse Width: 1ms to 100ms

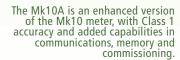
ENVIRONMENTAL

- Operating Range: -25°C to +60°C
 Limit Range: -40°C to +70°C
- Storage Range: -40°C to +80°C
- Relative Humidity: Up to 75% mean, 95% non-condensing for 30 days
 Ingress Protection: IP54, UL50 (3R)
- Salt Spray Resistant (IEC 60068-2-11)



LOAD SURVEY/PROFILE

- AMI Ready
- Up to 2.1 Megabytes of Non-Volatile Memory
- Over 3600 Days (10 Years) Storage (2 Channels, 30-Minute Intervals)
- Up to 32 Channels
- Intervals Programmable from 1 to 60 Minutes
- 2 Independent Surveys
- Energy, Instantaneous Readings, Pulsing Inputs as Channel Sources
- Ability to Store Average/Minimum/Maximum Values for Interval Duration



ATLAS SERIES

Class 1 & Class 2



PHYSICAL DIMENSIONS

- Standard Version: Approx. 292.5mm (L) x 175mm (W) x 94mm (D)
- Weight: Approx. 2 kg for WC, Approx. 1.8 kg for CT

TIME CLOCK & CALENDAR

- Accuracy (internal) within 15 Seconds per Month
- Backup Time of 10 Years without Power (Lithium Battery)
- Supports Daylight Saving Time
- Supports Gregorian or Persian Calendars

TIME OF USE

- Up to 8 Rates plus Unified Rate
- Up to 32 Separate Import & Export Registers
- Daily, Weekly, Monthly, Yearly & Special
- Up to 200 programmable Special Days
- Up to 61 Previous Periods plus Period Totals
- Block or Rolling Maximum Demand
- Energy, Pulsing Inputs
- Time of Maximum Demand



LARGE LCD DISPLAY

- Large 7-Segment Display
- Display Digit Size: 10.7mm (H)
- Up to 60 User-Defined Screens of any Meter Parameter
- Definable Enunciators
- Display Available even without Mains Power

- Multi-level Security (Username & Password including Encrypted Log-in)
- Up to 7 Independent Security Levels
- Up to 6 Individual Users



TAMPER DETECTION & ALARMS

- Provision for Sealing with Conventional Wire or Plastic Seals
- Bypassing Current & Reverse Current
- Advanced Tamper Detection and Logging
- Pre-programmed Alarms for Meter Self-check
- Alarms Trigger LEDs, Enunciators, Relay Outputs or Comms Event
- Alarms are Stored in Event Logs



COMMUNICATIONS

- 3 Independently Working Communication Ports
- Optical Port: FLAG (IEC 62056-21) or ANSI Type 2 (ANSI C12.18)
- RS-232 with Modem Power Supply (2G/3G Supported)
 RS-485 Multi-drop (2 or 4 Wire RJ45 or 2 Wire Screw Terminal)
- or second RS-232
- UDP/IP/PPP/GPRS Capable
- Compatible with Zigbee & MV-90™

BATTERY OPTIONS

- Internal Battery
- Replaceable External Battery



SOFTWARE

- EDMI EziView Software Available for Meter Programming & Reading (Windows Vista/XP/2000)
- EDMI MultiDrive Software Available for Large Scale AMI & AMR Solutions (Windows Vista/XP/2000)
- Supported by Many Popular Third-party Multi-vendor AMR Systems



EDMI Ltd

47 Yishun Industrial Park A, Singapore 768724 Tel: +65 6756 2938 Fax: +65 6756 0125 Email: sales@edmi-meters.com support@edmi-meters.com



EDMI Pty Ltd162 South Pine Road, Brendale, Queensland, Australia 4500 Tel: +617 3881 6466 Fax: +617 3881 6467 Email: sales@edmi.com.au support@edmi.com.au