



ADVANCED SINGLE PHASE TWO-ELEMENT ELECTRONIC REVENUE METER

> Mk7A – Advanced Single Phase **Two-Element Electronic Revenue Meter** Built on the advanced Atlas metering platform, the Mk7A is a single phase two-element meter which integrates both a 100Amp and 60Amp relay which allows disconnection and reconnection of electrical services remotely.



........... **ATLAS SERIES** Class 1 & Class 2



MEASURE EVERYTHING

AMI READY

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TAMPER RESISTANT















ADVANCED SINGLE PHASE TWO-ELEMENT ELECTRONIC REVENUE METER



DISCONNECT

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MEASURE EVERYTHING

FLEXIBILITY

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LARGE DATA STORAGE

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
 Thase 2 Wire with 100A Disconnect Switch
- Twin Element Measurement & Control, Main 100A, Load 60A
- Ideal for PV Grid Connected Gross and Net Metering Applications
- Many Configuration Options for Element & Relay

VOLTAGE & POWER SUPPLY

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

- 2 Element 4 Quadrant
- Import/Export Wh, varh and VAh
- Per Quadrant Wh, varh and VAh
- Absolute Wh, varh and VAh
- Main, Load & Total

OTHER MEASURED & DISPLAYED VALUES

- Power: W, var, VA, Vrms, Irms
- Power Factor, Frequency, Phasor Angles
- **POWER QUALITY INDICATION**
- Total Harmonic Distortion (THD)
- Waveform Download
- **SAG/SWELL**
- 5 Cycle Resolution
- Records Time/Date/Phase/Duration/Average & Worst Excursion
- Programmable Trigger Levels

INPUTS/OUTPUTS CONFIGURATION

- Up to 4 I/O Total in 2 Isolated Groups (Maximum 2 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: 240V, 100mA maximum
 S0 Output: 27V, 27mA maximum
- Relay Output: 240V, 5A/2A
 2 LED Indicators
- 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

LOAD SURVEY/PROFILE

- AMI Ready
 Up to 2.1 Megabytes of Non-Volatile Memory
 Over 7200 Days (20 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



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The Mk7A is a single phase two-element meter, with an added ability for remote connect-disconnect of electrical services.

ATLAS SERIES

Class 1 & Class 2



PHYSICAL DIMENSIONS

- Standard Version: Approx. 233mm (L) x 128mm (W) x 85mm (D)
- Weight: Approx. 1.8 kg

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: 9.3mm (H)
- Up to 60 User-Defined Screens of any Meter Parameter
- Definable Enunciators
- Display Available even without Mains Power

SECURITY

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LARGE LCD DISPLAY

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AMI READY

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

COMMUNICATIONS

BATTERY OPTIONS

Internal Battery

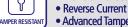
SOFTWARE

 Option for second RS-232 UDP/IP GPRS/PPP Capable

Replaceable External Battery

TAMPER DETECTION & ALARMS

Provision for Sealing with Conventional Wire or Plastic Seals



Advanced Tamper Detection and Logging

• 3 Independently Working Communication Ports

Option for Zigbee Mesh RF & MV-90[™]

Solutions (Windows Vista/XP/2000)

Email: sales@edmi.com.au

Tel: +617 3881 6466 Fax: +617 3881 6467

support@edmi.com.au

RS-232 with Modern Power Supply (2G/3G Supported)

 EDMI EziView Software Available for Meter Programming & Reading (Windows Vista/XP/2000) EDMI MultiDrive Software Available for Large Scale AMI & AMR

Supported by Many Popular Third-party Multi-vendor AMR Systems

EDMI Pty Ltd 162 South Pine Road, Brendale, Queensland, Australia 4500

www.edmi-meters.com

- Pre-programmed Alarms for Meter Self-check
- Alarms Trigger LEDs, Enunciators, Relay Outputs or Comms Event Alarms are Stored in Event Logs

• Optical Port: FLAG (IEC 62056-21) or ANSI Type 2 (ANSI C12.18)