

EM502 - Advanced Energy Monitor by ExSolar

PRODUCT FEATURES

- Real-time Watts per minute/hour/60 hours/Month shown graphically and numerically
- Instantaneous Watts, Voltage, Current, Frequency and Power Factor Readings
- Currency value of kW used
- Temperature measurement
- Data export to memory card and RS-232 in CSV format
- Real-time database uploads via network modules



Energy monitoring and data logging solution for residential and commercial projects.

- AC Single or three phase capability.
- DC Monitoring of Voltage and Current.
- Detailed on-board Graphical Reporting.
- Per second Memory Card Logging.
- Data export for real-time database integration.
- GSM, Wi-Fi or Ethernet modules available.
- Network access to data in real time.
- Temperature logging (in near future)
- Dynamic control of Grid Tie Inverters.

Data Storage (approx onboard)

1 data entry every 2 seconds
Equates to 100 Mb per month
3.3 years per 4GB on board memory card

WiFi specification

Radio Protocol : IEEE 802.11b/g/n
RF Output Power : 9 dBm (Internal PA)
RF Frequency : 2.4 - 2.497 GHz
Compliance : Wi-Fi, FCC, IC, ETSI, RoHS
Security Protocols : WEP, WPA/WPA2-PSK

Ethernet specification

10Base-T or 100Base-T : Auto-Sensing
Link & activity indicator : Full/half duplex
Operating temp : -40° to 85°C

Mechanical Data

Ambient temperature range : 0-55°C
Operating temperature range : 45°C
Dimensions (WxHxD) : 45x180x100mm
Weight (basic unit only) : 1.1Kg

Energy consumption

Max. : 1.5W

AC Measurement

Max. Current (CT dependent) : 600A
Min. Current : 0.01A
Max. Voltage input 130VAC or : 260VAC Factory Set
Min. Voltage 110VAC or : 190VAC Factory Set
Frequency (HZ) (factory set) : 50-60
Power factor : 1.00 to -1.00
Current sensors : 3
Power direction : Bidirectional

DC Measurement

Max. Current (CT dependent) : 600A
Min. Current : 0.01A
Max. Voltage input : 96Vdc
Min. Voltage : 0.01V
Current sensors : 1
Power direction : Bidirectional

Temperature Measurement

Max. Temperature : not yet available
Min Temperature : not yet available
Resolution : not yet available