

# PowerLog

Meter data Logger



metering monitoring measuring managing energy power metering monitoring measuring managing energy power



- **Logs data from Power Meters**

MultiCube, MultiRail & Rail RTU meters

- **Local or Remote operation**

Direct connection or via MODEM, with real-time reading of remote meters

- **Parameters individually selectable for each Meter**

Currents, Voltages, PFs, etc for Maintenance, kWh for Energy Surveys, Currents for Demand surveys, Harmonics & Voltages for Power Quality analysis, etc

- **Log Interval user selectable**

From 1 minute to 24 hours

- **Supplied complete with software**

Set-up, Download and Export for Analysis

The **PowerLog** provides simple and cost effective logging of electrical parameters measured by one or more multifunction meters. The **PowerLog** is sufficiently versatile and flexible to be used in a variety of ways: Energy management - logging Energy and Demand at standard intervals. Power Quality - logging voltage and distortion. Demand Analysis - logging Currents and Power Demands. Plant Maintenance - detecting deviations from normal operation for early indication of possible plant failure. Meters are interrogated using standard MODBUS® RTU protocol over an RS485 link, with diagnostic LEDs to assist in commissioning. A separate RS232 connection is provided for connection to the configuration & download software that runs on a PC.

Supplied complete with easy to use Windows software, the **PowerLog** can be simply and quickly configured from a PC. Meters are automatically recognised, with tables of available parameters provided for user selection, and logging interval can be set to suit the application - from 1 minute to 24 hours. In addition to logging instantaneous readings, the **PowerLog** can be configured to average readings over the logging interval. To ensure data integrity in the event of power loss, NV memory is used so that data storage is not dependant on the capacity of any battery.

When logging is complete, the **PowerLog** software is used to download the logged data. The data is then exported from the software for import into an Excel spreadsheet (or many other popular programmes) for analysis, charting or reporting to suit the user requirement.

Remote operation is simple; Meters can be installed up to 1200m from the **PowerLog**, and the PC may be connected directly to the **PowerLog** or remotely via a Modem. When the software is used to interrogate any **PowerLog** data logger, a 'Meter Reading Window' allows real-time readings to be viewed from the remote instrument, with updates every second if required.

### Brief Specification

#### Logging Capacity

N° of Meters	12 max
Memory Size	512k bytes
Storage Capacity	Based on logging every 15 minutes from 12 Meters
	More than 3 months
kWh only	37 days
Amps + Amps MD	18 days
Amps, Volts & THD (V & I)	From 1 minute to 24 hours
Logging Interval	Linear or Circular
Memory Mode	

#### Auxiliary Supply

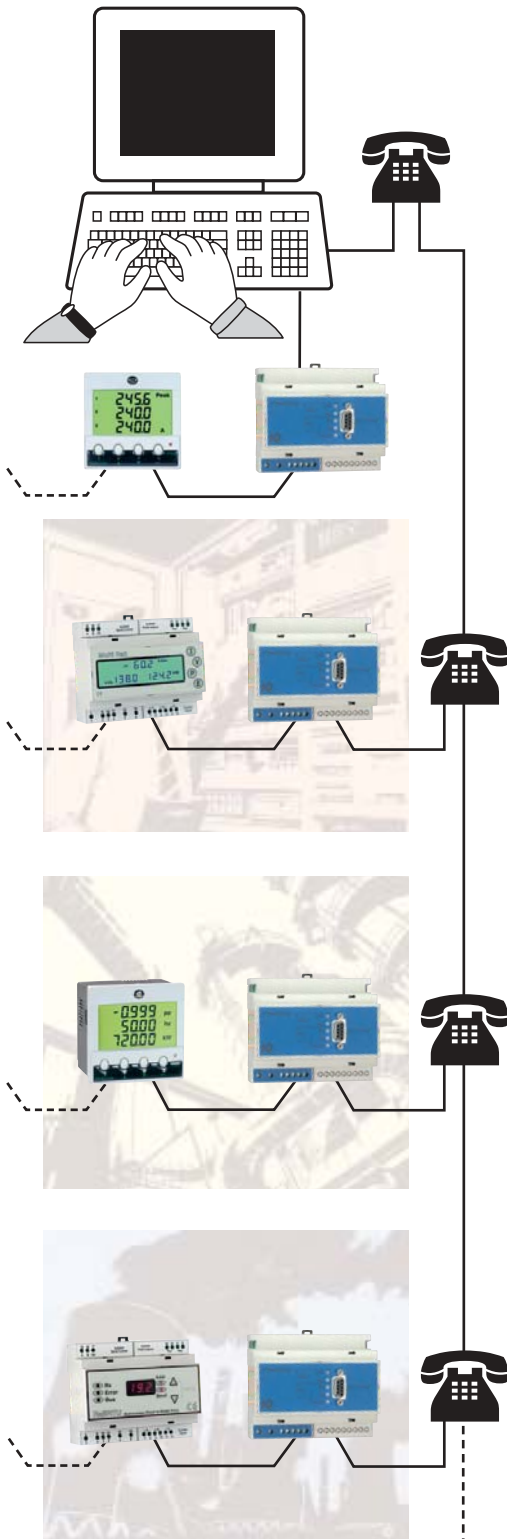
Standard	230 V ±15% 45-65Hz
Optional	115 V. Other values to order

#### Battery Capacity

R T Clock Support	3 Months
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#### General

Enclosure	Noryl UL94-V0
Dimensions	106 x 90 x 58mm DIN 43880, 6 modules wide
Weight	400 gms approx
Terminals	Rising Cage, 2.5mm <sup>2</sup> max cable
Environmental	
Temperature	-10°C to +65°C Operating
Humidity	< 95% RH non-condensing
Meter Communications	RS485, 2 wire plus common
Protocol	MODBUS® RTU
Baud Rate	4800, 9600 or 19,200
Address Range	1 - 12
Reading Rate	User settable: 1 - 600 seconds
PC Communications	RS232
Protocol	Custom
Baud Rate	115,200 max



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