

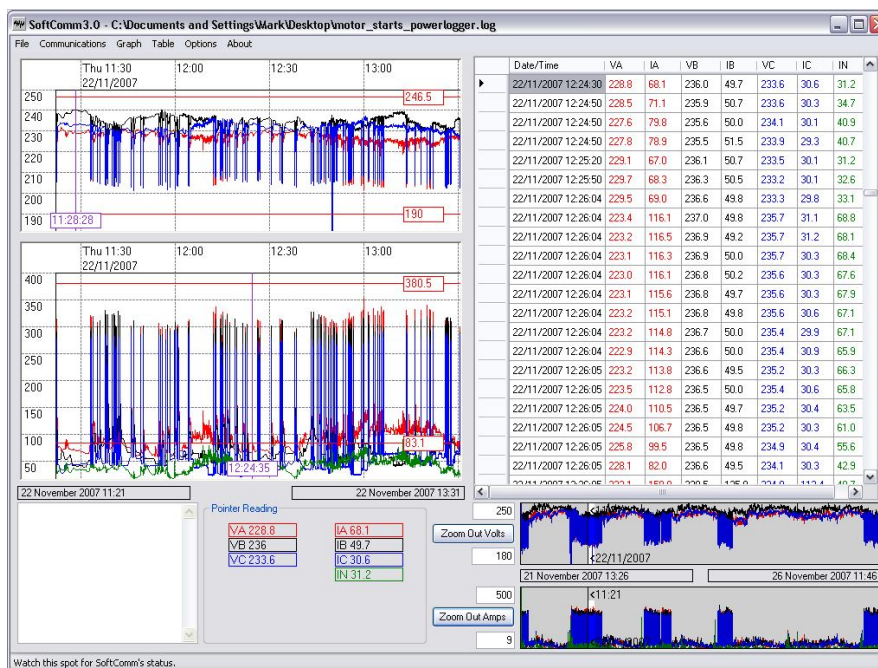


Thew & McCann
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Technical Data Sheet

Ph: (+61) 07 3826 6000
Fax: (+61) 07 3826 6066
www.thew.com.au

T-Mac® Power-Logger Data Recorder



DESCRIPTION:

The Power-Logger is a three phase voltage and current recorder capable of sensing and recording very short duration disturbances and abnormalities on the electricity network. The unit is specifically designed for customer service and supply quality investigations in commercial or industrial areas. The Power-Logger is able to increase it's recording rate to up to 10 readings per second in response to user-defined conditions occurring on the network.

The unit records directly to a USB flash drive, eliminating the need for downloading.

The unit is powered from the A phase voltage sensing input.

DATA RECORDED

It will record the following variables:

- Supply mains voltage, including short duration dips and spikes such as occurs during motor starting.
- Mains supply current, also able to sense short duration disturbances. The unit has 4 current transducers allowing for measurement of 3 phase and neutral currents.



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SPECIFICATIONS:

Inputs

Mains voltage measurement range: 180V – 280Vac (Line to Neutral) 3-phase
Current measurement range: 0-2000A or 0-750A (Custom ranges available on request.)
Frequency: 50Hz
Accuracy: $\pm 0.5\%$ of reading for voltage, $\pm 1\%$ of FSV for current.

Data Recording

Sampling Rate: 4000 samples/sec.
Signal processing: Digital TRUE RMS to DC conversion
Maximum recording duration: Unlimited. (512 Mb USB disk will allow for 1years recording.)
Recording Interval: Variable between 1 reading/hr and 10 reading/sec
Resolution: 0.1V for voltage inputs and 1A for current.
Sensitivity (for sags/surges): 0.1 to 60 seconds adjustable.

Memory

Onboard memory: FLASH™ memory, software programmable
Endurance of calibration values: 40 years without battery power
Data Connection: USB slave for PC connection
Data Downloading: Data is stored on a USB flash disk, no download required.
Data Processing: By proprietary software supplied with the Power-Logger

Power Supply

Mains Connection: High clearance multipin connector, rated to 13kv.
Power Supply: 180V – 280Vac single-phase mains voltage on A phase.
Backup Power Supply: Internal 8.4v rechargeable NiMhi battery.
Power Supply Current: < 100mA
Standby Current: 100 μ A (nominal)
Operating Temperature: 1°C to 50°C

Case Dimensions

Approx. 175x135x90 mm

Weight

Approx. 1650g

Protection & Safety

IP Rating: IP65
Category Rating: CatIV to IEC61010
Electrical Test: To IEC61010 Section 6.8
Supply Protection: Supply line fused @100ma
Voltage Measurement Protection: High-impedance voltage sensing input
Data port: All digital circuits opto-isolated from mains supply.

Software

Softcomm – Recording Software
SoftCal – Calibration Software



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Main features

No need to download, immediate access to data.
 Data displayed in a graphical format, easy zoom function.
 Overlay Charts for comparison.
 Export data into Excel.
 Calibration via SoftCal Software package.

Software

| | |
|-------------------------|--|
| Operating System | Windows XP. |
| Additional Requirements | Microsoft .Net Framework 2.0 (Included On Software CD) |
| Availability | CD or Email – Free of charge |

Hardware

| | |
|------------|--|
| Processor | P3 800Mhz or equivalent (P4 recommended) |
| Memory | 256M (512M recommended) |
| Disk Space | 25M (4M if .NET framework installed) |

Accessories

Overhead line supply leads (included)
 Flexible current transducers (included)