powerstar
The Power of Knowing

PowerTrack Portable Data Logger

The PowerTrack instrument is a portable energy recorder designed to provide detailed information on a specific electrical feed. Extensive communications capabilities (local & remote) enable fast and accurate information retrieval and the software provides a graphical interface for quick and easy analysis of recorded data.

Features

The unit has the following main functions:

- Extensive load profiling, recording per phase and summated parameters.
- Display of all instantaneous energy-related values on the graphical screen.
- Energy Meter and CT verification functionality Typical Applications.

- Costing Analysis – Determine cost centres, identify opportunities for demand control and determine energy consumption patterns.
- Load Studies – Determine the capacity of a network, perform load trending, phase balancing, DSM studies.
- Power Factor Investigation – Determine the maximum demand and capacitor bank sizes required for unity power factor.
- Generator Investigation – determine peak loads per phase for sizing of Gensets.

Voltage and Current Inputs

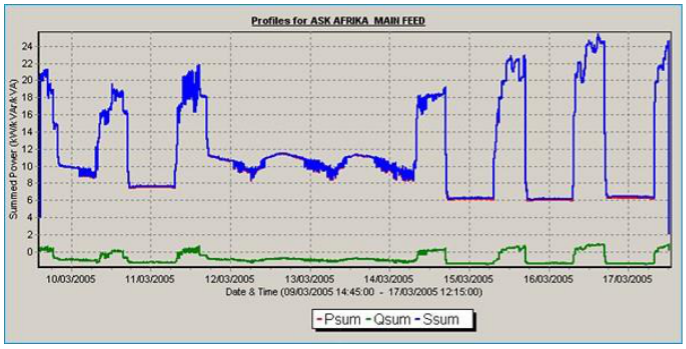
The PowerTrack is issued standard with fused voltage leads with crocodile clips and various types of current transducers can be used. The instrument supports 5A, 100A clip-on CT's as well as flexible coils measuring up to 1600A. Specialized coils can also be made to order for larger currents.

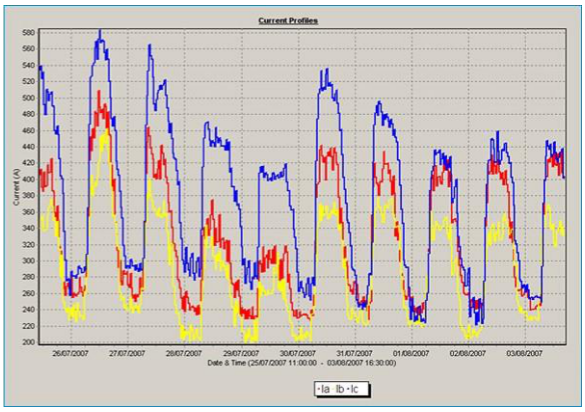
5A CT

Flexible Coil CT

Software Functionality

The PowerTrack software incorporates various graphical and analytical functions for quick and easy analysis of recorded data. Extensive zooming capabilities and multiple export functions allow for sensible and presentable reporting of recorded data.





Connection Methods

Technical Information

General Specification	
Dimensions	120x80x240mm
Voltage input Range	85V ac - 260V ac (Phase to Neutral)
Current Probes Supported	0 - 5 Amp clip-on; 0 - 1 Amp clip on
Flexible Passive Current Probe	(1600/800/400/200A)
Communication Interface	1 x RS232 Port
Communication Protocol	Modbus RTU
Accuracy	Class 1
Clock Accuracy	Accurate to ±1 Minute/Year (0°C to +40°C)
Keypad	20 Key Alphanumeric
Power Consumption	3.5 VA
Expected data retention	Minimum 5 years

Display	
Type of Display	128 x 64 Graphical LCD with backlight & contrast control
Instantaneous	Line Current (Per Phase)
Displayed Values	Phase Voltage (4Wire/3Watt Only)
	Line Voltage
	kW (Per Phase & Summed)
	kVA (Per Phase & Summed)
	kVar (Per Phase & Summed)
	Power Factor (Per Phase & Summed)
	Frequency
Measuring Method	3Watt/4Wire or 2Watt/3Wire

Profile Recording	
Memory Capacity	4 MB
Memory Type	Non Volatile Flash
Parameters Recorded	V, I, kW, kVA, kVar and Power factor (Per phase & summed)
Recording Intervals	1, 2, 5, 10, 15, 30, 60 Second(s) or Minute(s)
Recording Method	Average over recording period
Recording Buffer	Continuous buffer (FIFO)
Typical Recording	Time 22 Hours 45 Minutes @ 1 Second
	9 Days 11 Hours 35 Minutes @ 10 Seconds
	8 Weeks @ 1 Minute
	2 Years 17 Weeks @ 15 Minutes

Onboard Statistics and Month End Data	
Voltage	Highest and Lowest Voltage
Current	Highest Current
Energy	Active Energy Import
(Meter Grand Totals)	Active Energy Export
	Reactive Energy Capacitive
	Reactive Energy Inductive

Need more information?

Please feel free to contact us at sales@power-star.co.za should you have any enquiries.