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PROFILE

Portable Energy Recorder



INTRODUCTION

Before it is possible to make educated decisions to change operating practices to cut electricity use and waste it is essential to know precisely the current usage patterns. This is best determined by the use of an energy recorder on the circuit in question. The **Profile** system provides all the capabilities for this task in a compact, lightweight, but robust, 'simple to use' package with no need for live voltage connections.

THE SYSTEM

Profile will measure current and voltage and record, against a user set integration period, **kW**, **kVAr**, supply **Volts**, total circuit **Power Factor** and two **Pulse Inputs**. Using this recorded information the **Propower** Software provides the ability to graph and print information, for all 3 phases or a single phase, on **kW**, **kVAr**, **kVA**, **Amps**, **Volts**, and **Power Factor**.

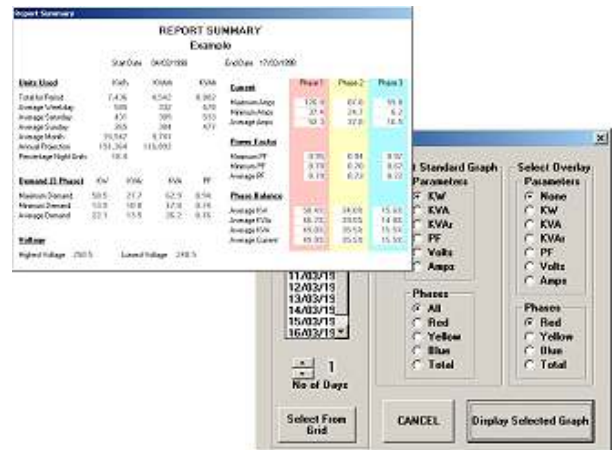
APPLICATION

The **Profile** will normally be installed on a low voltage circuit with each of the three colour coded Rogowski coils [**now with mini flexible coils available as standard (~50mm ID)**], measuring a phase current and the unit taking it's voltage reference from the power source, typically a 13 Amp socket. Correct installation and instantaneous values are easily confirmed with the two line LCD.

Automatic ranging of the current measurement circuit means minimum user involvement, maximum accuracy at differing current levels and no full scale % accuracy problems with **Profile** when measuring low currents. Profile IV automatically chooses between the four ranges of 0-6 Amps, 0-120 Amps, 0-500 Amps or 0-2000 Amps to suit the current being measured.

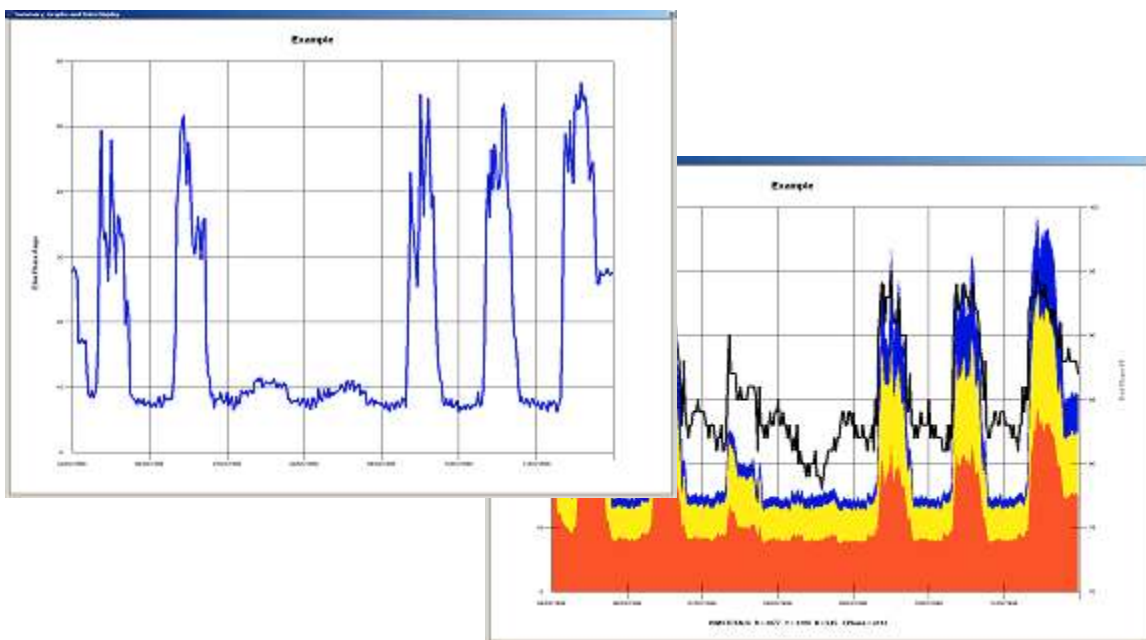


Not only does **Profile** record demands for each of the circuit phases but it also includes kWh and kVAh registers enabling the system to be used as a temporary meter. Data recorded can be copied into a PC using the system software enabling the resulting text file to be analysed using a spreadsheet or the included **Propower** Software.



PROPOWER SOFTWARE

This Windows based software [latest version **PP2**] provides for data retrieval, viewing in both tabular and graphical form (now with right hand y scale overlay) and printing if required, it is also the means to changing **Profile** operation configuration such as integration period, time etc. Data can be graphed for individual phases, collectively for all three phases or as a total for the circuit. The data file can also be imported into spreadsheets such as Excel, Lotus123 etc for specific analysis as the user may require or the well known Reporter Professional software package can be used.



In addition to the graphical output of Propower a summary sheet gives peak and average values for Demand, Power Factor, phase current etc for the survey data being analysed. A real time monitoring facility is also available.

SYSTEM/SPECIFICATION

Profile unit 95 x 195 x 45 mm with integral LCD, weight 0.5 kg
Integration period user selectable 30, 15, 10, 5, 1 mins or 10, 2 secs
Data storage 30 mins : 12 weeks, 15 mins : 6 weeks etc

Profile IV auto ranges to 6, 120, 500 & 2000 Amps
Profile V as IV plus with auto HV facility

3 flexible Rogowski coils, internal capacity ~Ø 50mm, 0-2000 Amps range

LV power lead [standard 13 Amp plug], unit will operate 95V to 265V

RS232 data transfer lead

Carry case, User Manual and installation guide

Propower PP2 (latest version) Software with User Guide

Options available include pulse input adaptor and fused mains lead/probes for switchgear use. An additional software package, *Reporter Professional*, provides further data analysis including tariff costing of the data recorded and other graphical outputs.

Data can also be retrieved over a site network thus enabling the monitoring of remote locations from a central PC.

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