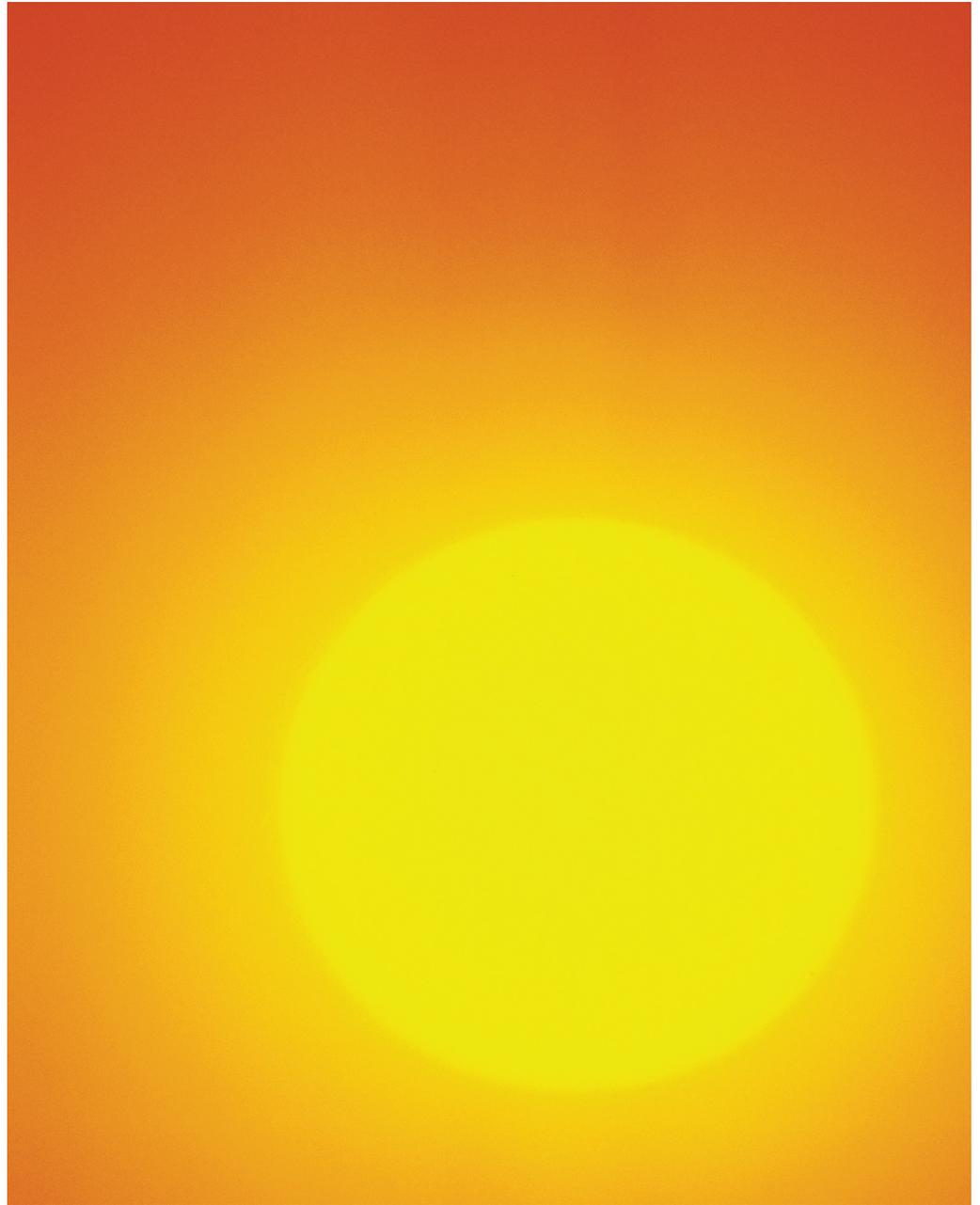


**acksen**

Electrocorder  
data loggers for the  
renewables sector.



Helping you make informed  
decisions about reducing your  
carbon footprint.

September 2012

**Powerfully Measured**

**Acksen Renewables Data Logger range will record patterns of Directional Flow of Energy, Onsite Solar Irradiance, Charging Circuits, Photovoltaic Cells, DC Motors and much more.**

The advantage of the Acksen products over most others is that our Data Loggers constantly sample information (recording the Min, Max and Average) over the set period, many other products only take 'snap shots' of what is going on and can miss 99.9% of the data that is critical to your overall analysis.

**Who are we:  
Measured Soul**

At Acksen, we believe in being green, it's something we're passionate about. We're driven to design and manufacture great products that allow you to make accurate, informed decisions about carbon management and corporate environmental obligations.

**Where we sell:  
Measured Intelligence**

Acksen support a network of distributors in North America, Australasia and Europe who supply our data logging equipment to customers who have typical roles and responsibilities around environmental planning, regulation and monitoring of energy use with respect to CO<sub>2</sub> emissions. Typically our customer profile ranges from Electrical Contractors / Facilities Management through to Energy Management Professionals and Power Utilities.

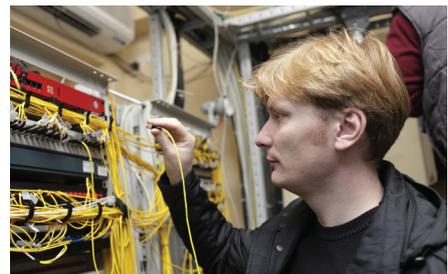
**What we sell:  
Measured Honesty**

By providing a personal service we design, develop and deliver dependable products to identify areas of energy use, faults in supply and loading issues; we give you the tools to make decisions around escalating energy pressures.

Our company ethos is to provide easy to use electrical measurement equipment with excellent software analysis at a conservative cost; our data loggers are classed as entry level equipment which can measure Voltage, Current and Power Factor. The products are robust and accurate by using a constant sampling technique supported with a 12 month back to base warranty and free software licensing for multiple users.

**When we were set up:  
Measured Success**

Established in 1994, Acksen Ltd has grown from a small local UK based company, to one that is now respected on a number of continents offering a solid alternative to Global Brands who service large scale complex solutions for electrical data logging equipment.



With Solar PV installations increasing in many countries and the realisation that the old myths around the technology as expensive and uncompetitive are being disproved, attention for many now has turned to the on-going efficiencies of modules and if they are delivering what they set out to.

Until recently solar installations primarily involved a site survey which took into consideration irradiation at the site; now consumers are asking about on-going efficiencies of the modules based on irradiation and power generation over time; how much energy is the site consuming and when is it exporting to the grid, this is of particular interest to many industrial and domestic consumers, particularly as part of on-going energy audits and responsibilities around carbon reduction.

This area of efficiency is definitely an issue which has become prominent in consumer's conscience and as time progresses, questions are being asked about returns on investment and meeting obligations around reducing CO<sub>2</sub> emissions; now Acksen Electrocorder can offer the answers to questions about efficiency.



## Powerful products that work

### PV-3

The PV-3 for measuring Solar Irradiance and Solar Panel output energy will record minimum, average and maximum irradiance 0-1500m<sup>2</sup>;



### RE-2VAD

The RE-2VAD will additionally measure the directional flow of energy generated, whether it is being imported or exported to the grid.



### SR-1R

The SR-1R is a solar irradiation logger for use in proposed installation sites and the



### DC-3VA

The DC-3VA is perfect for measuring the energy output of a solar panel, this product is also often used in the measurement of charging battery cells.



*"Great little machine. It has proved an eye opener for a lot of customers and shown up some serious loading issues, (even when the customers bury their head in the sand, they cannot dispute the facts!)"*

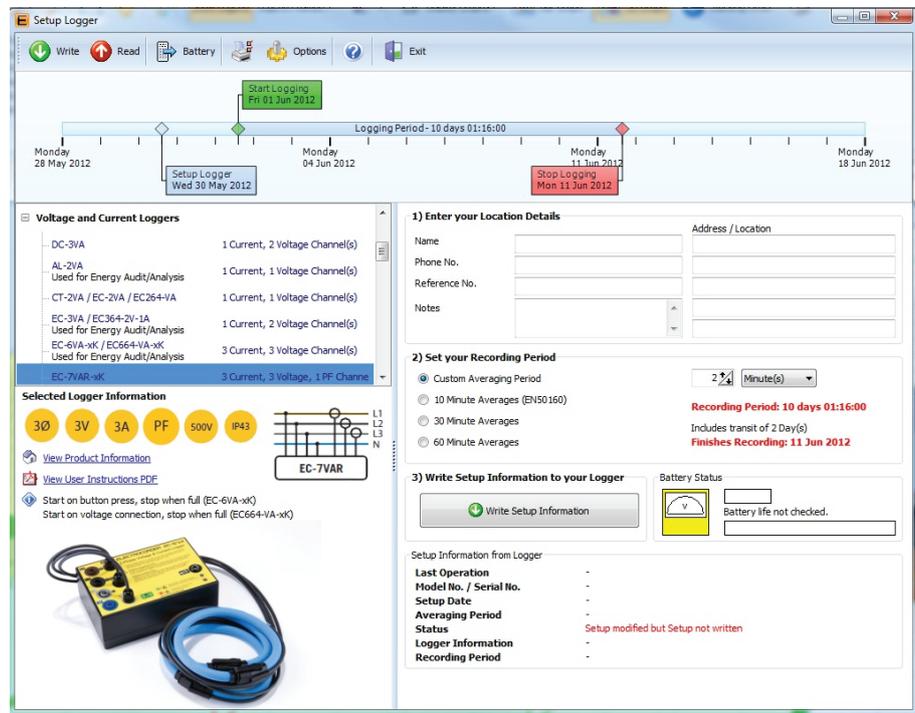
H.Rose Electrical Supervisor, referring to the Three Phase Voltage Current (and Power Factor) data logger, EC-7VAR.

The Acksen Electroorder full range of data loggers offer essential measurement tools for many job functions, products include single and three phase AC data loggers and also multiple channel data loggers for DC installations.

**When purchasing an Acksen Electroorder you are buying a complete kit, there are no hidden extras.**

Electroorders are supplied as standard with necessary sensors, connection leads, software and carry case all backed up with a 12 month manufacturer's warranty.

Software licences for Electrosoft data analysis are free, this offers you a flexible multiple use exchange of data.



*"It proved quite instructive to display the solar panel output on the same chart and scale as the logger, so helping people to understand what is going on and therefore how to adjust the time when you turn things on in order to maximise the use of your own electricity... We were also able to show people the background electricity use during the night with variations caused by the fridge and freezer going on and off and how there were periods during the day when we had to import electricity because we were not generating enough."*

G. Tomlinson Renewables Project Leader, referring to the Directional Energy Flow Data Logger the RE-2VAD

