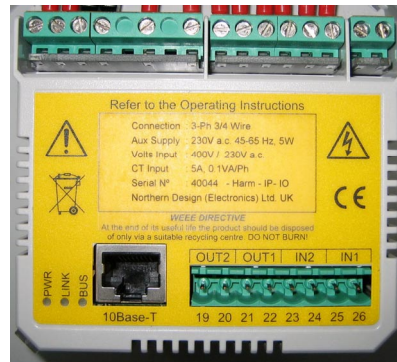


NewFound Energy *CubeIP* Network Enabled Multi-function Electricity Meters



The complete *aM&T* Energy Management System within a Meter

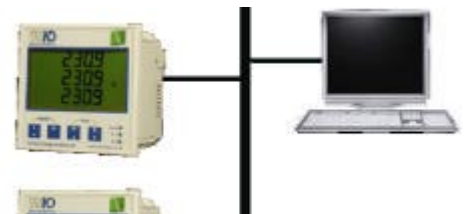
You install your *CubeIP*

- The Meter Measures
- The Meter Logs
- You read the Meter with your web-browser

and ...

- For Data Security, transmit data to your Server

You connect it to your IT Network



Energy Management at an affordable price

- **Totally Integrated** — Just one box to install
- **Retro-fit Option** — Available with split current sensors & a wall-mounted enclosure
- **Expandable** — Use one or multiple Meters
- **No Special Software** — Uses your standard web browser
- **Prevent Excessive Demand** — Auto Alarm option available

The Meter Logs & Profiles your consumption and can warn you if limits are exceeded

and ...

- Use the Meter to calculate your Energy Cost and your CO2 Emissions
- Use the Meter to compare your consumption against best practice
- Use your Meter Data to compare energy suppliers
- Use your Meter to control your Energy Consumption

and ...

- Use your Meter to monitor your Gas & Water or other resources
- Use your Meter to monitor Degree Days
- Use your Meter to monitor production

The Truly Smart Meter

- It measures your Electricity
- It records the readings (2 months of ½ hour data)
- It includes all the software you need to manage your Energy use

The Meters

Network connectivity is currently available on the *Cube IP 400* Meter. Network versions of the *Rail 350* and other multifunction Meters are in development.

With these Meters, all readings – not just the Energies – can be accessed.

For full specification see Cube400.doc.

Available Network options include:

- **External Managed Web Servers** to allow access to Meters from outside the organisation without endangering network security, and to provide regular data backup
- **Custom Web Pages**

The integral web site can be customised to order. Options include for displaying readings from several *Cube IP* Smart Meters

The Integral Web-Site

Accessed from any PC or PDA with the correct permissions. 16 screens are available as standard, custom screens can be developed and uploaded.

Every parameter measured by the meter is available for presentation.

Configuration screens, for the Meter, for the network interface and for Data Logging and FTP transfer are provided.

An 'Excel Web Query' page allows direct import of selected data into any standard desktop application – such as a spreadsheet or word processor.



Data, such as shown below, can be automatically updated if required

kWh	kVArh	Amp Dem1	Amp Dem2	Amp Dem3	kW Dem	Pk kW Dem	kVA Dem	Pk kVADem	kW	PF	kVAr	I Neut
25077	5921	127	138	92	92	107.2	98	121	79.3	0.95	26	3

Information available can include

Phases		Phases	
Volts, LN & LL	1, 2, 3	Peak Volts LN	1, 2, 3
Amps	1, 2, 3	Peak Amps	1, 2, 3
Amp Demand & Peak	1, 2, 3	Neutral Current total	
PF	1, 2, 3 & total	kW, kVA & kVAr	1, 2, 3 & total
kW, kVA & kVAr Demand total		Peak kW, kVA & kVAr Demand total	
kWh & kVAh total		kVArh, Ind & Cap total	
Frequency		Export kWh, kVAh & kVAh total	
Hours Run (on Load) total			
%THD Volts & Amps	1, 2, 3	V & I Harmonics 2nd to 15th	1, 2, 3

The Options

➤ **Retro Fit**

Cube IP Smart Meters can be supplied as retro-fit kits, complete with a set of mini split Current Sensors. Available ranges include 50 Amp, 100 Amp, 150 Amp, 400 Amp & 800 Amp. Other types also available.



➤ **Easy Install Enclosure**

Cube IP Smart Meters can be supplied complete with a wall mount enclosure. Alternatively, they can be installed in a standard electrical panel – all that is needed is a standard DIN 96x96 aperture.

➤ **Inputs and Outputs**

Cube IP Smart Meters can be supplied with Digital Inputs & Outputs. The two **Digital Inputs** are available to collect consumption information from electricity, gas or water meters, or any other device that has a pulse output (e.g. Production Counter). The two **Digital Outputs** can be programmed as Alarms or for remote control/operation of an item of plant.



Really Smart Meters

- Easy to Install** By any professional Electrician.
- Easy to Connect** Fully network enabled. Just plug into the nearest network socket. For remote connection, use a standard WiFi access point or Mains Network Interface.
- Easy to Read** Use your favourite web browser.
- Data Access** All measurements taken by the meter are available to you when you need them, even in real-time!

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