

RAPID series 3

Energy Measurement

Our patented Energy Measurement technology is available exclusively on the latest generation of RAPID Lighting Control Module (LCM) and DALI gateway (pluggable and DIN rail variants)

Using patented technology it measures the energy consumption of all luminaires connected to an LCM on a RAPID system. In a database, it then logs the associated reports for access via a web based reporting suite at the front end PC. The raw data is also available in XML format so that the user can utilise a third party tool for analysis.

Flexible Energy Measurement

The system will provide actual energy usage data for individual luminaires connected to an LCM output channel or DALI gateway output. This is referenced using the output channel number and device address. The system also allows for the measurement of groups of fittings connected to a device (for example the energy usage data of an LCM with upto 12 luminaires connected to it). This information is obtained by referencing the device address. The system will also measure energy usage of individual electrical circuits which have several LCMs connected. This is achieved by a new field assigned within the LCM properties on the front end PC. There is also the provision for Energy Measurement for a floor. This data is acquired by an area code allocated to the area controller.

Logging and Reporting

The system then logs the information available for reporting that is fed back along the field bus network to the area controller. This data is collected at the area controller and that information is then fed back to the front end PC through the CAN or Ethernet backbone, at timed intervals.

Building Wide Measurement

The system can also provide Energy Measurement of all devices connected to the system building wide. This is achieved by referencing all the area codes and the reportable information is then fed via the CAN or Ethernet backbone to the front end PC.

Key features

- Actual energy usage data - not a monitored average
- Per luminaire measurement
- Measurement grouping - luminaire, LCM, areas, floor, buildings
- Multi-time and date reports available
- Real-time, web based and offline reporting
- Raw data is available in XML format
- Patented technology
- 5 year warranty*
- Manufactured in the UK

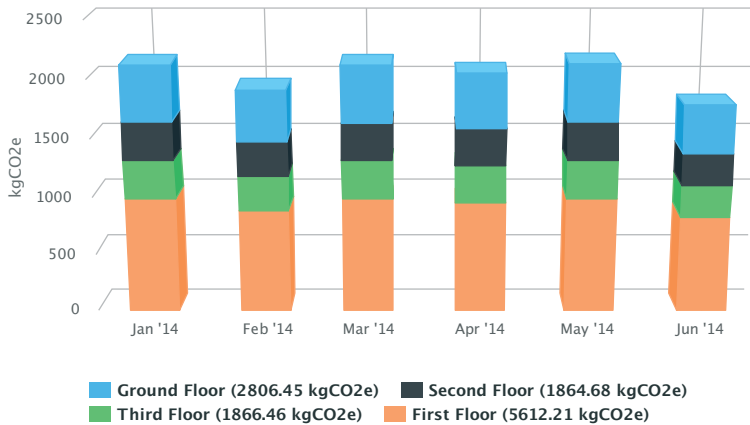
* Hardware only, subject to terms and conditions

The information is available for reporting as follows.

1. Output channel (e.g. LCM channel, DALI Gateway channel) – Meter reading (kWh), Peak power kW, total on time (The total on time is already recorded and is also shown on the front end)
2. Output device (e.g. LCM, DIN rail controller) Meter reading accumulated for each channel (kWh), instantaneous power (kW), and Peak power.
3. Electrical circuit – Meter reading accumulated for each device (kWh), Instantaneous power (kW), Peak power (kW)
4. Floor – Meter reading accumulated for each device (kWh) Instantaneous power (kW)
5. Building – Meter reading accumulated for each area (kWh), Instantaneous power (kW) and Peak power (kW)

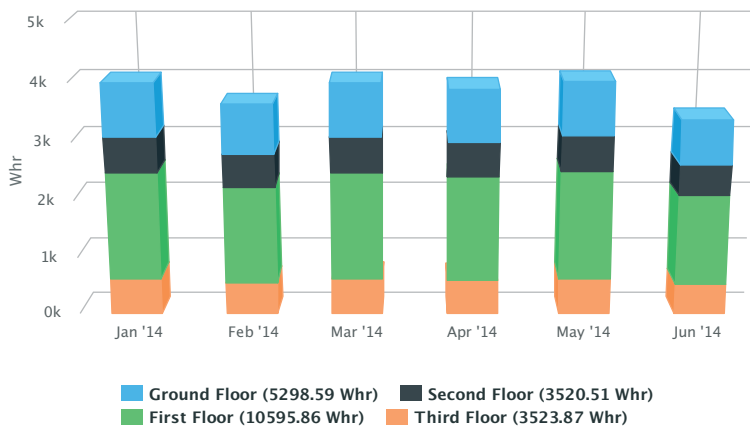
CO2 Emission

Building: Main Building, Floor: All Floors, Measurement Group: All Groups, LCM: All LCMs, Luminaire: All Luminaires



Total Active Energy

Building: Main Building, Floor: All Floors, Measurement Group: All Groups, LCM: All LCMs, Luminaire: All Luminaires



Reporting periods:

- Yearly
- Monthly
- Weekly
- Daily
- Hourly
- Yearly comparison
- Periodic comparison (quarterly)
- Segmented reporting.

Reports also available on:

- Total Apparent Energy
- Cost
- Current Meter Active Power
- Current Active Power.



IMPORTANT NOTICE:

This device should be installed by a qualified electrician in accordance with the latest edition of the IEE Wiring Regulations and the applicable Building Regulations.

Due to our policy of continual product improvement CP Electronics reserves the right to alter the specification of this product without prior notice.



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