

DC²Meter

a smart product by [Racktivity](#)



To give a total overview of your power consumption, Racktivity has complemented its product line with a new family of power meter and monitoring devices.

The DC²Meter addresses the needs of [telecommunications](#), [broadband](#), [wireless](#) and [broadcast service providers](#). The sensor can be installed at the DC power distribution board or in distributed remote locations such as PoPs, base stations, and head ends. The unit features a DIN rail mountable design and Ethernet connectivity and features 12 inputs for current measurements.

The DC²Meter also supports our *E²Sensor* range to offer a granular set of environmental monitoring including temperature, humidity and motion sensing as well as smoke detection, water leak detection under raised floors and dry contacts for rack door intrusion detection.

The meter is fully compatible with our *DataCenter Power Management (DCPM)* software [allowing you to remotely monitor and manage power and critical environment metrics in your data centers and/or smaller distributed infrastructures](#).

The DC²Meter provides you with the missing element for [a complete power monitoring solution and solves any issues with large or distributed estates of DC powered equipment](#).

With this addition, Racktivity gives you the tools to measure and analyse your data in order to [prevent downtime and reduce your carbon footprint](#).

.benefits

- › Thanks to the use of a split-core current transducer, no power is cut off during installation in existing environments
- › Fore-warned is fore-armed: pro-actively prevent downtime by creating customised thresholds for alarms and warnings
- › Plan capacity and avoid inefficient power usage
- › Compatible with the *E²Sensor*, Racktivity's environmental sensor which provides highly granular information regarding environmental status.
- › Full-feature and easy integration with our *DCPM* solution, the ultimate server software to monitor, manage and optimise your power usage and environmental information

.features

- › DC monitoring and more (Amp range, etc)
- › 12 external DC current sensors & 2 external DC voltage sensors can be mounted
- › Server-based authentication and direct ethernet connection
- › Event driven logging
- › Works on both -48V and +48V
- › OLED display & control with 4 input buttons (monitor read-outs, change network settings...)
- › Flash upgradable, for future PowerQuality analytics
- › Ultra low energy consumption (< 2 W)
- › DIN rail mountable

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The logo for Racktivity, featuring the word 'Racktivity' in a bold, blue, sans-serif font. The 'R' is significantly larger and more stylized than the other letters, and the 'i' has a dot. The logo is set against a white background.

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.technical specifications

MEASURE

- › Billing Grade Accuracy +/- 2%
- › Per Current Sensor : Current (A), Real Power (W), Energy Consumption (kWh)
- › Per SUM Group : Total Current (A), Total Real Power (W) and Total Energy Consumption (kWh)
- › Per 3Phase Group : Neutral Current (A), Total Real Power (W) and Total Energy Consumption (kWh)
- › Detailed event logging
- › Measure DC voltage
 - On 2 feeds: A and B
 - Input range: 36 - 60 VDC
- › Measure DC current
 - On 12 inputs: 6x A & 6x B
 - Input range: up to 800A (depends on current transducer)
- › Works on both + and - 48V
- › Internal temperature sensor
- › 100% galvanic separation between the 2 feeds
- › Power supply via A and/or B feed for redundancy

CONTROL

- › Ethernet 10/100 Mbps auto detecting, half/full duplex connection
- › Racktivity R-BUS connectors for connecting E²Sensors™
- › Remote access web interface through web browser
- › CLI (Command Line Interface) over Telnet and Telnet secure remote access
- › Display: monitor voltage, current and power

SECURITY & ALARMS

- › SNMP TRAPs, SETs, GETs support
- › Integrated secure web site (HTTPS)
- › SSL certificate
- › Customisable thresholds & alarms
- › Warning level for Voltage, Power, Current, Temperature and more
- › Extensive logging
- › Server-based authentication/authorization

OTHER

- › Form-factor: DIN rail 4M
- › OLED with 4 control buttons
- › LED power ON/OFF per feed
- › CE/RoHS Compliant

