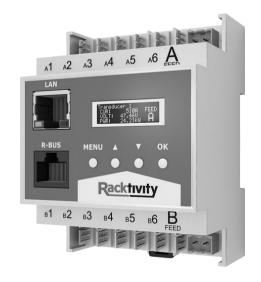
User Manual

DC²Sensor



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Introduction

Features

The DC²Sensor, Racktivity's newest addition to its data center power monitoring and management solution 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 supports 12 inputs for current measurements.

Main Features:

- Measure DC voltage
 - o On 2 feeds: A and B
 - o Input range: 36 60 VDC
 - Accuracy: +/- 2%
- Measure DC current
 - o On 12 inputs: 6x on Feed A and 6x on Feed B
 - o Input range: up to 800A (depends on current transducer used)
 - Accuracy: +/- 2%
- Calculates power (W) and power consumption (kWh) per port
- Works on both + and input voltage
- 100% galvanic separation between the 2 feeds
- Power supply via A and/or B feed for redundancy

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Applicable Models

Unless specified otherwise, all information in this document is applicable to the following Racktivity DC²Sensor models:

DCS12-02

Specifications

Electrical Ratings

Input:

Voltage	36 - 60 VDC

Operating Environment

Operating temperature	0°C to 50°C	32°F to 122°F
Storage temperature	-10°C to 60°C	14°F to 140°F
Humidity	5% to 85% RH	non-condensing

Dimensions

Dimensions cm (WxHxD)	7.1 x 9 x 5.3
Dimensions inch (WxHxD)	2.8 x 3.54 x 2.1

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User Account Overview

The DC²Sensor has 3 types (levels) of user accounts: *admin*, *restricted* and *guest*. The following table shows an overview of the functionality of each type:

	admin	restricted	guest
Open website	Yes	Yes	Yes
Open CLI session	Yes	Yes	Yes
View current status (states, data & values)	Yes	Yes	Yes
Edit thresholds	Yes	No	No
Edit port names	Yes	No	No
Change SNMP notification settings	Yes	No	No
Edit device settings	Yes	No	No
View & download logs	Yes	No	No
Default user name	admin	restricted	guest
Default password	1234	1234	1234

The same features and options apply to both the website and the Command Line Interface (CLI). To change the login credentials for the users please refer to the Device Settings chapter.

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Safety



Save these instructions!

This Safety Information contains important instructions that should be followed during installation and maintenance of the DC²Sensor. It is intended for Racktivity customers who set up, install, relocate, or maintain Racktivity equipment. Changes and modifications to this unit not expressly approved by Racktivity could void the warranty.



Electrical Hazard!

Read the following information before installing or operating your DC²Sensor:

- Do not work alone under hazardous conditions.
- High current through conductive materials could cause severe burns.
- Follow all local and national codes when installing the DC²Sensor.
- To avoid possible electrical shock and equipment damage, use only the supplied hardware.
- The feed connectors serve as the disconnects for the DC²Sensor.
- Do not operate your DC²Sensor with any covers removed or when it is damaged.
- There are no user serviceable parts inside the DC²Sensor. All repairs and service should be performed by authorized service personnel only.
- The DC²Sensor is designed for indoor use only in a controlled environment away from excess moisture, temperature extremes, conductive contaminants, dust, direct sunlight or magnetic sources
- Do not attempt to mount the DC²Sensor to an insecure or unstable surface.
- Never attempt to install electrical equipment during a thunderstorm.
- Use of this equipment in life support applications or any medical applications is strictly
 prohibited since failure of this equipment can reasonably be expected to cause the failure of
 the life support equipment or to significantly affect its safety.

• CAUTION:

The DC²Sensor contains a lithium battery and should not be disposed of with general refuge. Dispose of the lithium battery in accordance with all local codes and regulations for products containing lithium batteries. Contact your local environmental control or disposal agency for further details. The battery is not intended to be user replaceable.

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Certifications

Not all certifications are applicable to every model. Please check the label on your device.

• CE / FCC

This device is designed in compliance with the requirements of the 4 following regulations: EN 55022: Class B, EN 61000-3-2, EN 6100-3-3 and EN 55024. This device is certified to comply with Part 15 of the FCC rules.



Compliance

WEEE

Waste Electrical and Electronic Equipment

RoHS

Restriction of Hazardous Substances



Recycling



The materials used for shipping the DC²Sensor are recyclable, please save them for later use or dispose of them appropriately.

Servicing & Repair

There are no user serviceable parts inside the DC²Sensor. All repairs and service should be performed by authorized service personnel only.

Please refer to the Service manual for RMA procedure.

Additional Documentation

Additional documentation regarding the following subjects is available on the Racktivity Support Website http://www.racktivity.com/support/.

- API
- Manual
- GUID Overview
- o (python) examples
- Energy Sensor User Manual
- Servicing (RMA)

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Getting Started

Receiving Inspection

Inspect the package (see INVENTORY section) and contents for shipping damage and make sure that all parts were received. Report any damage immediately to the shipping agent and report missing contents, damage, or other problems immediately to your reseller.

Inventory

Please verify the contents of the box:

Standard Package

Item	Quantity
DC ² Sensor	1
Feed connector	2

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Installation

Mounting the DC²Sensor

Mount the DC²Sensor to a horizontal DIN rail using the slots at the back of the unit. Hold the unit with the top (white) slider over the DIN rail and while slightly pulling the unit down, place the bottom (black) slider over the bottom of the DIN rail.

To remove the DC²Sensor use a flathead screwdriver to slightly pull the bottom (black) slider down. This will enable you to pull the bottom of the unit forward and release it from the DIN rail.

Connecting the DC²Sensor

- 1. The DC²Sensor is powered by either of its Feed connectors (Feed A and Feed B) individually or simultaneously.
- 2. Attach the supplied feed connector(s) to an existing 36 60 VDC power cable by using the screws. The DC²Sensor regulates the polarity of the incoming current itself.
- 3. The POWER LED (red) adjacent to the connected Feed connectors will become active.

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Installing Transducers

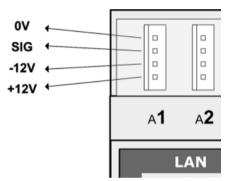
Specifications

The DC²Sensor has been designed to communicate with a wide range of transducers as long as they meet the following criteria:

Supply voltage: -12V/+12V Output voltage: -4V/+4V

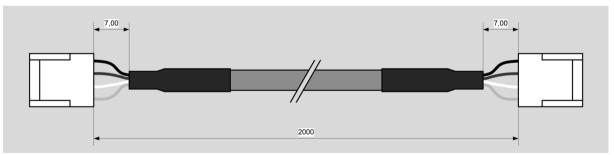
Note: The DC²Sensor features both a fixed list of predefined transducer models, and a Generic option which requires an additional value (mA/V) to be entered. If you are uncertain that your preferred transducer is compatible with the DC²Sensor, please contact Support prior to purchase.

The pin layout of the transducer connectors on the DC²Sensor is as follows:



Note: For the correct pin layout on the transducer side, please consult its respective datasheet.

A typical transducer cable will be assembled as follows:



Note: Wiring may be different according to the used transducer.

With the following components:

	Reference	Quantity
Connector	Molex 22-01-1042	2
Crimp contacts	Molex 08-50-0032	8
Cable	Belden 8723	1

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Installation

The DC²Sensor can be installed and operated by connecting only 1 of the available feed connectors. Each set of 6 transducer connectors (A1 - A6 or B1 - B6) is linked to its adjacent feed connector (A Feed or B Feed). Only an incomplete set of power metrics for the transducers of the unconnected feeds will be available. If certain metrics are missing for a specific transducer, please verify that there is an active feed for that transducer.

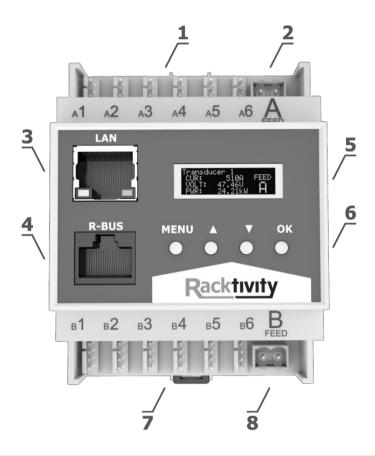
To install a current transducer:

- Connect the current transducer cable to the current transducer and an available 4 pins connector on the DC²Sensor but do not yet attach the transducer to the power cable.
- Open the Settings > Input Calibration tab on the web portal, select the transducer type for the correct connector and press the save button.
- Set the zero point by pressing the "Reset zero-point" button for the transducer (this can also be accomplished through the display).
- Connect the current transducer to the power cable that needs to be monitored.
- The DC²Sensor display and web portal will now show the correct current values (and power values if the Feed connector for that Feed is attached and powered).

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Overview

Front



1	A CONN	Transducer connectors 1 to 6 for Feed A
2	A FEED	Feed A input connector with Feed A power LED
3	LAN	Ethernet connector (with connectivity indicator LEDs)
4	R BUS	RS485 peripheral bus connector (for external modules)
5	OLED	Measurements and settings OLED
6	NAV BUTTONS	Menu, Up, Down and OK navigation buttons
7	B CONN	Transducer connectors 1 to 6 for Feed B
8	B FEED	Feed B input connector with Feed B power LED

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Status LEDs

Feed LEDs (2)

ON	The corresponding feed is powered
OFF	No power is provided to the corresponding feed

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Quick Configuration

Using the OLED Display

Activating the Display

When at least one of the Power LEDs is lit and the screen is black, push any of the 4 navigation buttons next to the display to activate it. The OLED standby delay can be set at the Settings page on the Web Interface (the default value is 10 minutes).

Controlling the Display

The display is controlled using the **MENU, UP, DOWN** and **OK** buttons below the screen. Use the **UP** and **DOWN** buttons to navigate through the reporting screens or through a selection list in the menus. Press **OK** to select the highlighted item and **MENU** to go back.

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Network Settings

There are two methods for setting up the IP address: Dynamic IP address assignment and Manual Assignment. If you are uncertain which method to use, contact your network administrator for assistance before continuing the installation process.

Note: The DC²Sensor has secure HTTP (**HTTPS**) enabled by default. Use 'https://' instead of 'http://' in your browser to access the web portal.

Dynamic IP Address Assignment (DEFAULT)

- Press the MENU button until the MENU appears, select Network Settings using the DOWN button and press OK.
- 2. Within the **Network Settings** menu, select **DHCP** and press **OK**. When the value DHCP: ON is displayed, the device already has dynamic IP assignment enabled (skip to step 4). If not, use the **UP** or **DOWN** buttons to change the value to DHCP: OFF and press **MENU** or **OK** to confirm.
- 3. Use the **UP** button to select **Apply Settings** and press **OK**. Press the **MENU** button to cancel or the **OK** button to apply the settings.
- 4. Press **DOWN** to select **IP Address** and press **OK** to display the current IP address.
- 5. On a computer in the same network, use a browser to open the assigned IP address, for example https://192.168.14.250
- 6. When surfing to the web portal, a login screen appears. The default user name is **admin** and the default password is **1234**.

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Manual IP Address Assignment

- 1. Obtain the correct IP address, standard gateway, DNS Server IP and subnet mask from your network administrator.
- 2. Press the MENU button until the MENU appears, select Network Settings using the DOWN button and press OK.
- 3. Within the Network Settings menu, select DHCP and press OK. When the value DHCP: OFF is displayed, the device already has manual IP assignment enabled. If not, use the UP or DOWN buttons to change the value to DHCP: OFF and press **MENU** or **OK** to confirm.
- 4. Use the **UP** button to select **IP Address** and press **OK**.
- 5. Use the **UP** and **DOWN** buttons to change the currently selected value and press **OK** to select the next value. When holding the **UP** and **DOWN** buttons changing the values speeds up. When ready press **MENU** to confirm and return to the **Network Settings** menu.
- 6. Repeat the last two steps for the **Subnet Mask**, **Standard Gateway** and **DNS Server** settings.
- 7. Use the **UP** button to select **Apply Settings** and press **OK**. Press the **MENU** button to cancel or the **OK** button to apply the settings.
- 8. On a computer in the same network, use a browser to open the chosen IP address, for example https://192.168.14.250

When surfing to the web portal, a popup appears requesting a username and password. The default username is admin and the default password is 1234

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Web Interface

Getting Started

Supported Web Browsers

The following browsers have been tested and certified to work with the DC²Sensor Web Interface (on all platforms):

- Internet Explorer 8 or higher
- Firefox 3.6.16 or higher
- Chrome 11.0.696.71 or higher
- Opera 11.11 or higher
- Safari 5.0.5

Other available web browsers may work with the DC²Sensor but have not been fully tested by Racktivity.

Logging in

For instructions on how to set up the TCP/IP settings to connect to the Web Interface, please see the Network Settings chapter.

To recover from a lost password, please refer to the Troubleshooting chapter.

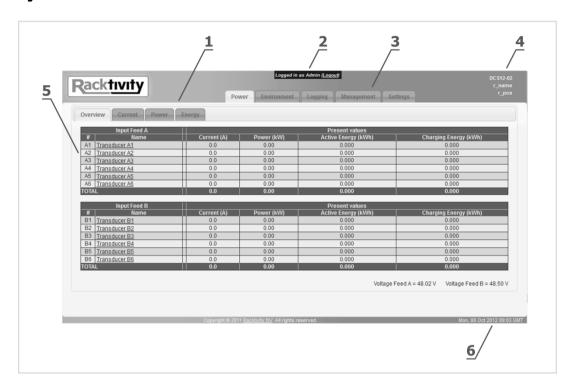
Use an internet browser to open the DC²Sensor IP address. You will be asked for login credentials, the default values for the **administrator** account are:

User name	admin
Password	1234

To find out everything about the different types of user accounts see the User Account Overview chapter. If you are presented with a warning about the connection being untrusted (self-signed certificate) it can be ignored.

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Layout



1	Sub tabs	Displays the different sections of the selected main tab
2	User account	Displays which type of User Account is currently logged in
3	Main tabs	Displays the different functions of the DC ² Sensor
4	Device info	Displays the device name, rack name & rack location. Can be changed at the settings tab
5	Transducers	Displays the available info for each transducer of Feed A and Feed B
6	Device time	The time set on the Settings tab (either manual or through an NTP server)

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Tabs

Power

Use the Power Tab for the following:

- See the load and general status of both the DC²Sensor's individual transducers and the totals:
 - o Amps
 - Wattage (only when the corresponding Feed Connector is powered)
 - Active and charging energy (kWh)
 - Voltage for each Feed
- Monitor transducers
- Configure thresholds for transducers and totals (as applicable)
- Resetting measurements
- Change SNMP notifications for

Environment

Use the Environment Tab to monitor and manage:

- Internal sensors (as applicable)
- Voltage: status, history and management of each Feed

Logging

The logging tab provides access to the **Event** logging. After selecting the desired module and time-range the log can be downloaded or viewed inside the browser.

For more information regarding this subject, please refer to the Logging chapter.

Modules

Use this tab to control connected Energy Sensors.

For more information regarding the Modules tab, please see the Energy Sensor documentation.

Note: This tab is only displayed with a connected and managed Energy Sensor.

Management

The management tab is used to manage the modules in a DC²Sensor setup, including Energy Sensors.

For more information regarding the managing of Energy Sensors, please see the Energy Sensor documentation.

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Settings

Use this tab to configure the following settings:

- Network
- SNMP
- Telnet
- Device and User Accounts
- NTP (Network Time Protocol)

Network Configuration

path: Settings > Network Settings

The Network Settings contains both the Network and the SNMP related settings. The SNMP related settings can be found in the SNMP Configuration chapter. The following Network settings are editable:

- Device IP Address
 - The IP address of the DC²Sensor*
- Subnet Mask
 - The subnet mask of the DC²Sensor
- Standard Gateway
 - o The IP address of the default node on the network
- DNS Server
 - o The IP address of the Domain Name System (DNS) server
- Enable DHCP
 - Check to enable DHCP
- Force secure web access (HTTPS)
 - Check to force secure HTTP web access
- Force secure telnet access (SSL)
 - Check to force SSL telnet access
- * Note: When DHCP is enabled, the Network Settings are not necessarily the ones shown here, since they are provided by the DHCP server. Disabling DHCP will force the DC²Sensor to use the provided Network Settings.

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SNMP Configuration

The DC²Sensor offers SNMPv2 communication (GETs, SETs and traps). Notifications (traps) can be enabled or disabled for many of the device's functions:

- Transducer thresholds (current, power, ...)
- Totals thresholds (current, power, ...)
- Temperature thresholds
- Voltage thresholds
- ..

To toggle SNMP for a specific parameter or function, (un)check that parameter's checkbox and press the Save button. The SNMP checkboxes can be found next to most measurements.

SNMP Settings

path: Settings > Network Settings

 The Network Settings contains both the Network and the SNMP related settings. The network related settings can be found in the

Network Configuration chapter. The following SNMP settings are editable:

SNMP Community read

The community read string for GET requests

SNMP Community write

The community write string for SET requests

SNMP Trap Community string

Community string used when sending SNMP traps

SNMP Trap Receiver port

The port (1 - 65535) on which traps will be sent

SNMP Trap Receiver IP

IP address of the trap receiver. Up to 3 trap receivers (and ports) can be configured

• Enable SNMP write protection

Check this box to disable SNMP write (SET) access to the DC²Sensor completely

• Enable SNMP Traps for device

The DC²Sensor will not send any traps when unchecked, regardless of individual settings

• Use ECS authentication

Toggles the use of an external authentication server

• ECS Authentication server IP

The IP address of the authentication server

• ECS Authentication server port

The port (1 - 65535) of the authentication server on which the connection will be made

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Device Settings

The Device Settings give access to

- DC²Sensor identification
 - o **Device name**: the name of the DC²Sensor
 - **Rack name:** the name of the rack where the DC²Sensor is located
 - **Rack position**: the identifier of the position in the rack
- User account settings (see the User Account Overview chapter)
 - Admin
 - Restricted user
 - Guest
- **TFT** settings
 - o **TFT timeout**: the idle time in minutes after which the TFT goes into standby
 - o **TFT display lock**: when checked the TFT (and buttons) cannot be used to change settings. All changes must be made through the website.
- **Temperature**
 - Temperature unit: degrees Celsius (°C) or Fahrenheit (°F)
- Date & Time Settings (see the Network Time Protocol (NTP) chapter)
 - **Date & Time Settings**: The real-time clock dialog features several options. Uncheck the Use NTP checkbox to be able to set a custom date & time. Uncheck the Use default NTP checkbox to not use an NTP server from pool.ntp.org and enter the custom IP address into the NTP address field.

Note: Making changes to the date/time settings might clear all logged data!

Thresholds

Thresholds can be configured and used so that you are notified through SNMP at certain events. Many of the DC²Sensor's parameters have settable thresholds. To configure a specific threshold, open the tab where the appropriate parameter is shown.

Threshold (kW)		
Warning minimum	Warning maximum	SNMP Warning
-18.00	54.00	V
-18.00	54.00	V

At least the following parameters have one or more settable thresholds:

Amperage

o path: Power > Current

Wattage

o path: Power > Power

Voltage

o path: Environment > Voltage

Ambient

o path: Environment > Ambient

External modules

o path: Environment > External Modules

© 2011 Racktivity NV 24/32 Depending on the parameter one or more of the following types of thresholds will be available:

• Warning: When the measurement crosses this value an SNMP notification is sent

• Low: When the measurement goes below this value an SNMP notification is sent

• **High**: When the measurement goes above this value an SNMP notification is sent

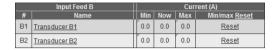
To change a threshold enter the desired value into the appropriate input area and press the Save button. If the background of the input area turns red an incorrect value has been entered.

Note: Most thresholds have corresponding SNMP checkboxes that enable/disable the notification. Please ensure both the threshold **and** the appropriate SNMP notifications are set correctly.

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Resetting Measurements

For many parameters the minimum, maximum and/or total is saved to give an easy overview of load activity. These values van be easily reset by pressing the Reset link for that value.



The following parameters have resettable values:

- **Individual & total amperage**
 - o path: Power > Current
- Individual & total wattage
 - o path: Power > Power
- Individual & total active and charging energy (kWh)
 - Note: The Accumulated kWh counter is not resettable!
 - path: Power > Energy
- **Temperature**
 - o path: Environment > Ambient
- Voltage
 - o path: Environment > Electrical

Clicking a Reset link in the column header will reset all values in that column, except for the value in the Total row.

Network Time Protocol (NTP)

path: Settings > Device Settings

The Network Time Protocol (NTP) is a protocol for synchronizing the clocks of computer systems over networks. The DC²Sensor is equipped with an onboard clock that can be setup to sync with:

- pool.ntp.org (default)
- a custom NTP server
- date & time picker

For more information regarding the configuration of the onboard clock please refer to the Device Settings chapter.

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Introduction

The DC²Sensor has a built in Command Line Interface that can be accessed through Telnet. Commands are typically sent to the separate modules. A DC²Sensor consists of exactly 1 Master module and 1 optional Energy Sensor module. Each module is of a specific type: 'M' for master module, 'A' for sensor module. The Master will always have address M1, sensor modules can have addresses A1, A2, A3,

Connecting

Connect to the device IP on port 23. Please note that only Telnet over SSL is enabled by default and requires an SSL capable Telnet client. This can be changed at the Settings tab

Once connected, you will be presented with a log-in screen. Use the admin credentials to gain full access. From here it is possible to access the majority of the DC²Sensor's functions. Enter "HELP" for more information.

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Logging

The DC²Sensor features an Event logging memory that can be downloaded from the Web Interface or through the API for your convenience.

Event

path: Logging > Event

The Event log is used to keep a history of all important events. Fill in the available fields and view the log in your browser or download it for offline use.

Module

The module for which to request the Event log.

• Start time

The starting date & time for the log.

• End time

The ending date & time for the log.

Download

Download the log as a text file.

Show

View the log in your browser.

The Log is displayed as a table with the following columns (from left to right):

Timestamp

The timestamp of the event.

Event type

The type of event: outlet toggle, threshold violation, ...

GUID

The GUID of the control. For more info regarding GUIDs please refer to the ES Series - API Manual.

Value

The value that was returned by the event (voltage, temperature, etc)

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Management Information Base (MIB)

A management information base (MIB) is a virtual database used for managing the entities in a communications network and is most often associated with the Simple Network Management Protocol (SNMP). The DC²Sensor features a built-in mib file which can be found at the following locations:

- By browsing to https://[DEVICE_IP]/ES-RACKTIVITY-MIB.txt (where [DEVICE_IP] is the IP of your DC²Sensor).
- By clicking the "Download MIB file" link on the Settings > Network Settings tab on the web portal.

Use this file to translate the OIDs (Object IDentifiers) to a more human-readable state. For more information on how to use the MIB file, please refer to the documentation of your network monitoring software.

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Upgrade Firmware

Racktivity is always working on improving and fine-tuning its products. It is possible that a new firmware is available for your device. During a firmware update the device continues working as normal.

Note: Make sure all active connections to the DC²Sensor - such as the website, telnet and SNMP - **are closed before updating**. Open connections might result in a failed update!

Obtaining Files

If you are unsure whether a firmware update is available for your device, have a look at http://www.racktivity.com/support or contact Racktivity Support (see Support chapter). If applicable the necessary files and instructions will be provided.

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Troubleshooting

Resetting Login Credentials

In case of lost login credentials, resetting them can be done on the device itself:

 Press and hold the UP and DOWN buttons simultaneously for 3 seconds until a notification is shown on the display.

The credentials will now be reset to their default settings:

	Default login credentials	
User name	admin	
Password	1234	

Connecting to the Web Interface

If you are unable to connect to the Web Interface please try one or more of the following options:

- Ping the device on its IP address. When unsuccessful, the DC²Sensor is most likely not on the same network as your PC, or communication is blocked by a network device.
- Connect the DC²Sensor directly to your computer (please note that for this both devices need to have a valid fixed IP).
- Try opening the Web Interface with another browser.
- Connect to the DC²Sensor using a different computer.
- If possible, power cycle the DC²Sensor.

Knowing your DC²Sensor' IP address

If you want to easily find out the IP address of your DC²Sensor, use the navigational buttons next to the TFT on the front.

- If the TFT is black, press any button once to activate it.
- Press MENU to enter the Menu.
- Select Network Settings and press OK.
- Press the DOWN button, select IP Address and press OK.
- The IP of your DC²Sensor is displayed.

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Support

Feel free to contact us if you need any support or have any other questions or remarks:

Online www.racktivity.com/support

E-mail support@racktivity.com

Phone 003293242095 (GMT+1)

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