

QUICKSTART-GUIDE Smart EnOcean Gateway (EN)

DC-GW/EO-IP V3.1

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1. Introduction

Please read this Quick Start Guide carefully before using the Gateway. For more information about the gateway, the software, and the latest documents, visit the website: www.enocean-gateway.eu.

1.1. Symbols



WARNING! Important information on hazards and risks!



NOTE! This section contains further important information!

1.2. Notes

Avoid placing the device in a metal housing. Such placement will affect the ability to communicate with other devices. If the device must be placed in a closed metal enclosure, make sure that the antenna is placed outside the cabinet.



Do not open the device! In the event of an error, please contact the manufacturer.

1.3. Health risks



Use the device only for the intended purpose. The device is only suitable for indoor use. Avoid exposing the device to moisture, dirt or dust. Avoid direct sunlight and other sources of heat.



FAQs and downloads can be found at: www.enocean-gateway.eu

In case of technical problems please contact our support: support@digital-concepts.eu

2. Functionality

The primary function of this product is to act as a communication bridge between EnOcean Wireless World and IP networks. EnOcean-certified sensors and actuators connected to the gateway can be controlled and retrieved via various interface commands. The EnOcean components are registered and administered via the device's web interface. System configuration is also possible with limited knowledge of EnOcean devices.

3. Scope of delivery

- A 1x Gateway
- B 1x Antenna
- C 1x Power Supply (110-230V Euro Adapter in, 5V 2A USB out)
- D 1x Bracket Mount, 4x Rubber foot, 4x screws (for wall mounting)
- E LAN Cable, 1m, RJ45-Stecker

4. Requirements

- stable and correctly configured network environment (with a DHCP server/router)
- CAT5 (or higher) network cable for connecting the gateway to a network
- Latest generation web browser to access the gateway's web interface (Google Chrome, Mozilla Firefox with Javascript enabled)
- Sensors and actuators should be within 20 meters of buildings and 40 meters of the gateway. These distances may vary depending on the structure of the building and the number of radio transmission devices.

5. Outlets

- LAN [RJ45] with activity and connection speed LEDs, USB [1x]
- Antenna connection [ANT], power supply [5V DC], reset, power LED

6. Mounting



When selecting a suitable location for mounting the device, make sure not to drill near electrical switches, sockets or cables.

6.1. Wall mounting

The holes in the housing can be used to fix the device to a wall.

6.2. Rail Mounting

Attach the DIN rail mounting clip to the back of the gateway with the supplied screw [D].

6.3. Positioning variant

Remove the covers from the supplied self-adhesive feet [D] and attach them to the corners of the bottom of the Gateway.

7. Hardware installation

- Screw the antenna or antenna cable onto the antenna connector of the gateway.
- Connect the gateway directly to a router using the network cable [E] at a network outlet.
- Connect the supplied power supply [C] to the gateway and plug it into a power outlet..



WARNING: 230 V mains voltage. Avoid physical contact! Danger to life!

8. Commissioning

8.1. Device detection and access

To access the device, it must first be found in the network. As soon as the IP address of the gateway is known, a computer in the same network can be accessed via the web interface.

8.2. Accessing the Web Interface

There are several ways to locate the gateway on the network once it has been turned on:

- UPNP for Windows Systems
- Bonjour for Apple devices
- DHCP Server Entries

8.2.1. Gateway detection in Windows systems via UPNP

UPNP is recommended when using a Windows operating system and a network environment where UPNP broadcasts are allowed.

- Start by opening the network menu item in Windows Explorer:
(Start > Computer > Network)
- The gateway should now be listed under the group "Other devices".
- The entry shows the pre-installed device name and IP address.
- A double click opens the browser and takes you to the login screen. If you right-click on the properties, you will get additional information.



Note: In many business and industrial environments, UPNP is blocked by switches or routers. Please contact your network administrator if you have problems accessing the device.

8.2.2. Gateway detection via Bonjour

Bonjour service is recommended when using MacOS or iOS environments. Your network environment must allow Bonjour communication. If you have difficulty finding the gateway, contact your network administrator.

- The gateway can be accessed by opening a web browser and entering the default name "dkgw" followed by the extension ".local". In most cases, entering "dkgw.local" in your browser will take you directly to the login screen.
- Alternatively, you can detect the device with a network program and access the device by entering the known IP address in the Safari browser address bar.

8.2.3. Device Setting via DHCP Server Entries

If you have access to the local DHCP server, you should be able to identify the gateway by searching the DHCP address list for an entry named dkgw <local domain>. You can use the identified IP address to connect to the device.

8.3. Login DCG Configurator

The first time you access the Web UI, you are prompted to create a password.

A screenshot of the Smart EnOcean Gateway web interface. The header shows the 'DC DIGITAL CONCEPTS' logo on the left and 'Smart EnOcean Gateway v1.0.10 Gateway Online Manual' on the right. The main content area contains a welcome message: 'Welcome to the Smart EnOcean Gateway! To start using the gateway, you must set a password for the WebUI. If you forget the password, you will have to reset the gateway so please remember it. After you choose a password for the WebUI, you will need to choose passwords for the Simple API and the REST API before you can start using them. This can be done in the menu: Admin | API Settings'. Below this text are two input fields: 'Password:' and 'Confirm password:'. A 'Change password' button is located below the second field. At the bottom of the page, there is a small copyright notice: '© Copyright 2014-2018 Digital Concepts'.

Enter your previously configured password.

Configuration details and further steps can be found in the DCG Configurator manual. Download from www.enocean-gateway.eu in the support area.

8.4. DCG-Configurator

After logging in, the screen shown should appear. Please note that the GW name is predefined and can be changed by the user. For further information please click on the "Gateway Online Manual" (link in the upper right corner).

9. Troubleshooting

- If the device does not respond, disconnect the power supply for at least 20 seconds and reconnect the device.
- If the gateway is still not responding, check all cable connections to the device. Make sure that the network activity LEDs indicate normal operation.
- If EnOcean devices are not working reliably, try moving the gateway to another location or removing sources of potential RF interference.

10. EU Declaration of Conformity

Digital Concepts GmbH hereby declares that the device complies with the essential requirements and relevant provisions of Directives 2014/53/EU and 2011/65/EU. The long version of the CE Declaration of Conformity can be found in English here: <http://enocean-gateway.eu/support/ce>.

Stuttgart, 27.09.2017

Oliver Fischer (CEO)

11. Technical Specifications

Technical Specifications	
Device model name:	DC GW-V3.1
Power supply	5 V DC , 2 A
Dimensions (HxWxD):	26 x 85 x 103 mm
Weight:	195 g (without Power Supply)
Operating temperature:	5 to 35 °C
Electric consumption (max):	3,0 W
Connections:	1x LAN(RJ45), 1x Antenna connector, 1x USB
RF band:	868MHz
Range:	Without obstacles up to 40m
Features	
DCG Configurator	Configuration via Web-Interface
Import/Export of Configuration Data	Yes
SoftwareStack	DC OS 5, providing Simple String, Restful JSON based commands
Symbols	
	The conformity of the product with the applicable EC directives.
RoHS	Tested in accordance with EU directive 2011/65 / EU - "Restriction of certain Hazardous Substances" - restriction of individual hazardous substances.
	Protection class III - Safety extra low voltage according to EN 61140 Operation via safety transformer, double insulation between the power circuit and output voltage. Limits: 50V AC - AC / 120V DC - DC
	WEEE Directive (Waste Electrical and Electronic Equipment) According to the European Directive 2002/96 / EC and 2012/19 / EU Disposal of the device is not in household waste but at an appropriate electronic waste collection point. WEEE-Reg.-Nr. DE 83788620
	Device is to be used for the designated purpose only. Device is to only be used with the provided power supply.
Areas of application	
	The device is only to be used in the designated areas of application: Application: Interior; Storage and Use: Dry
	Tested in accordance with EMC Directive EN 61000 EN 61000-6-1 (Immunity to interferences Residential, ...) (Immunity for industrial environments) EN 61000-6-3 (interference emission living area, ...) EN 61000-6-4 (Interference emission industrial environments)

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