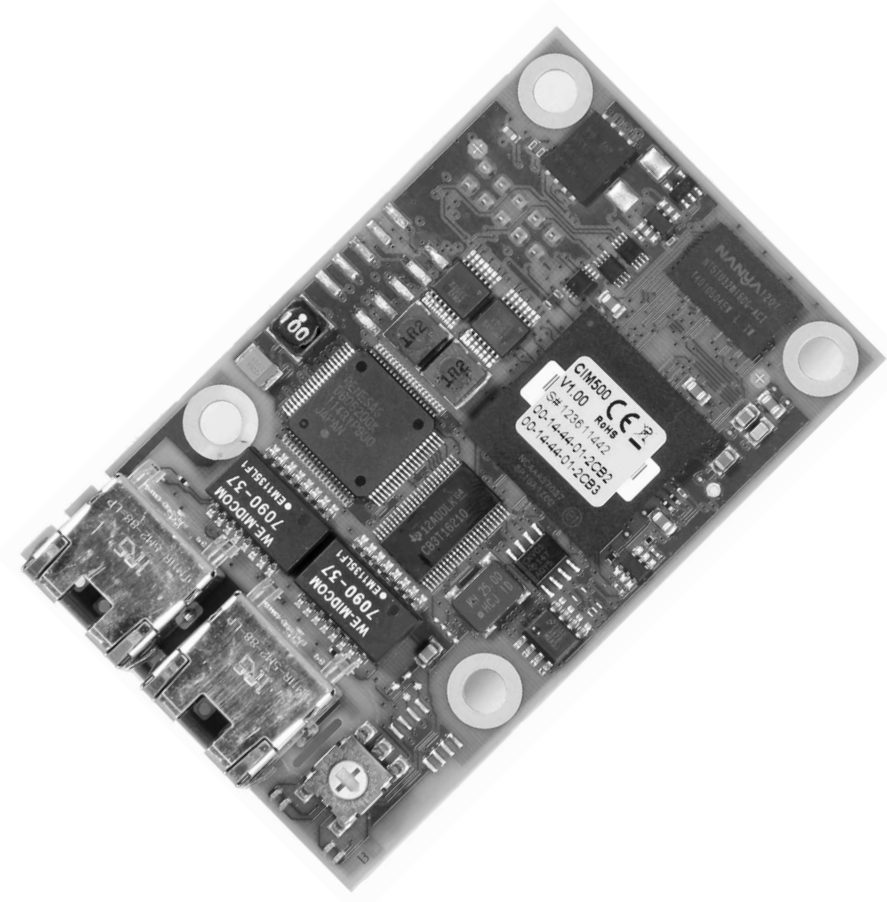


# CIM 500 Ethernet module

Installation and operating instructions



# English (GB) Installation and operating instructions

## Original installation and operating instructions

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## 2. Applications

The CIM 500 Ethernet module enables data transmission between an industrial Ethernet network and a Grundfos product.

The module supports various industrial Ethernet protocols. See section [3.2 Selection of industrial Ethernet protocol](#).

The module is fitted in the product to be communicated with or in a CIU 500.

Retrofitting of the module is described in the installation and operating instructions of the Grundfos product.

Configuration is done via the built-in web server, using a standard web browser on a PC.

See the specific functional profile on the DVD supplied with the Grundfos product.

### Warning



Prior to installation, read these installation and operating instructions. Installation and operation must comply with local regulations and accepted codes of good practice.

## 1. Symbols used in this document

### Warning



If these safety instructions are not observed, it may result in personal injury.

### Caution

If these safety instructions are not observed, it may result in malfunction or damage to the equipment.

### Note

Notes or instructions that make the job easier and ensure safe operation.



### 3. Installation



**Warning**  
Only connect the CIM 500 to SELV or SELV-E circuits.

#### 3.1 Connecting the Ethernet cable

Use RJ45 plugs and Ethernet cable. Connect the cable screen to protective earth at both ends.

**Note**

It is important to connect the cable screen to earth by means of the earth clamp or in the connector.

**Note**

For GRM IP communication, please ensure the network is protected by a firewall.

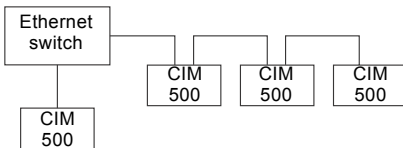
#### Maximum cable length

Speed [Mbit/s]	Cable type	Max. cable length [m/ft]
10	CAT5	100/328
100	CAT5e	100/328

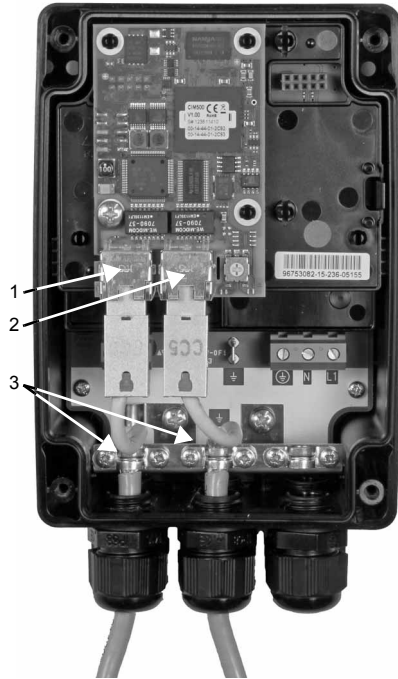
#### Cable type

Industrial Ethernet protocol	Cable type
Modbus TCP	Standard CAT5, CAT5e or CAT6
PROFINET IO	Standard CAT5, CAT5e or CAT6
BACnet IP	Standard CAT5, CAT5e or CAT6
GRM IP	Standard CAT5, CAT5e or CAT6

The CIM 500 is designed for flexible network installation. The built-in two-port switch makes it possible to daisy chain from product to product without the need of additional Ethernet switches. The last product in the chain is only connected to one of the Ethernet ports. Each Ethernet port has its own MAC address.



**Fig. 2** Example of industrial Ethernet network



**Fig. 3** Example of Ethernet connection

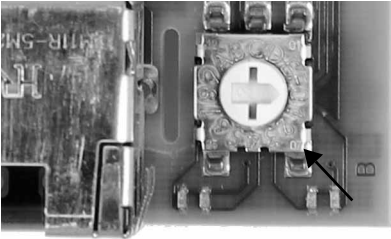
Pos.	Description
1	Industrial Ethernet RJ45 connector 1
2	Industrial Ethernet RJ45 connector 2
3	Earth clamp/GND

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TM05 6435 4711

### 3.2 Selection of industrial Ethernet protocol

The module has a rotary switch for selection of the industrial Ethernet protocol. See fig. 4.



**Fig. 4** Selecting the industrial Ethernet protocol

TM05 7481 1013

Pos.	Description
0	PROFINET IO (factory setting)
1	Modbus TCP
2	BACnet IP
3	Reserved
4	GRM IP for Grundfos Remote Management (requires a contract with Grundfos)
5...E	Reserved. LED1 will be permanently red to indicate an invalid configuration.
F	Resetting to factory settings. <b>Note:</b> Set the rotary switch to this position for 20 seconds to reset to the factory settings. During this period LED1 will be flashing red and green.

**Note** If the switch position is changed when the module is powered on, the module will restart.

### 3.3 Setting up the IP addresses

The module comes with fixed IP address. The IP address settings can be changed with the built-in web server.

Default IP settings used by web server	IP address: 192.168.1.100 Subnet mask: 255.255.255.0 Gateway: 192.168.1.1
IP settings for Modbus TCP	Must be set with the web server.
Device name and IP settings for PROFINET IO	Static configuration from web server or configuration from PROFINET IO configuration tool
IP settings for BACnet IP	Must be set with the web server.
IP settings for GRM IP	GRM IP uses DHCP, the connected Router assigns automatically an IP address.

### 3.4 Connection to the web server

The module can be configured by means of the built-in web server. To establish a connection from a PC to the CIM 500, proceed as follows:

1. Connect the PC and the module, using an Ethernet cable.
2. Configure the Ethernet port of the PC to the same network as the CIM 500, e.g. 192.168.1.101, and the subnet mask to 255.255.255.0.  
See section [How to configure an IP address on your PC](#) on page 14.
3. Open a standard Internet browser and type 192.168.1.100 in the URL field.
4. Log in to the web server:

Username	admin (factory setting)
Password	Grundfos (factory setting)

**Note** Username and password may have been changed from the factory settings.



**Fig. 5** CIM 500 connected to PC

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#### 3.4.1 Connection to the web server using GRM IP

To access the web-server via GRM IP, you need to connect your PC parallel to the router (RJ 45 port 1) at CIM500 RJ 45 port 2 and look at Router webserver which address the router assign to the CIM500. Then use this IP address for the webserver access.

See also section [Web server configuration](#) on page 14.

**Note** You can use both ETH1 and ETH2 to establish a connection to the web server.

**Note** You can access the webserver while the selected industrial Ethernet protocol is active.

**Note** When you select "GRM IP", the connected router will automatically assign an IP address to the module via DHCP.

## 4. Status LEDs

The module has two status LEDs, see fig. 1:

- LED1: Red/green status LED for Ethernet communication.
- LED2: Red/green status LED for communication between the module and the Grundfos product.

### LED1, GRM IP

Status	Description
Off	No GRM IP communication or switched off.
Flashing green	Startup period (120 sec.)
Permanently green	Communication with GRM server established.
Flashing green (0.3 Hz)	Data transmitting to GRM server.
Flashing red	GRM communication lost or no communication to GRM server.
Flashing red and green	Resetting to factory settings. After 20 sec. the CIM 500 will restart.

### LED1, Modbus TCP/BACnet IP

Status	Description
Off	No Modbus/BACnet communication or switched off.
Flashing green	Modbus/BACnet communication active.
Permanently red	Module configuration fault. See section <a href="#">6.1 Modbus TCP/BACnet IP</a> .
Permanently red and green	Error in firmware download. See section <a href="#">6.1 Modbus TCP/BACnet IP</a> .
Flashing red and green	Resetting to factory settings. After 20 seconds the CIM 500 will restart.

### LED1, PROFINET IO

Status	Description
Off	The module is switched off.
Flashing green	Wink function. LED will flash 10 times when activated from master.
Permanently green	The module is ready for data transmission (data exchange state).
Flashing red (3 Hz, duty cycle 50 %)	Wrong or missing PROFINET IO configuration. See section <a href="#">6.2 PROFINET IO</a> . Restart the CIM 500. Use the RESTART button from the web server PROFINET configuration.
Pulsing red (0.3 Hz, duty cycle 10 %)	Configured, but connection to master lost. See section <a href="#">6.2 PROFINET IO</a> .
Permanently red	Product not supported. See section <a href="#">6.2 PROFINET IO</a> .
Permanently red and green	Error in firmware download. See section <a href="#">6.2 PROFINET IO</a> .
Flashing red and green	Resetting to factory settings. After 20 seconds the CIM 500 will restart.

### LED2

Status	Description
Off	The module is switched off.
Flashing red	No internal communication between the CIM 500 and the Grundfos product.
Permanently red	The module does not support the Grundfos product connected.
Permanently green	Internal communication between the module and the Grundfos product is OK.
Permanently red and green	Memory fault.

**Note**

During startup, there is a delay of up to five seconds before the status of LED1 and LED2 is updated.

## 5. Data activity and link LEDs

The module has two connectivity LEDs related to each RJ45 connector. See fig. 1.

### DATA1 and DATA2

These yellow LEDs indicate data traffic activity.

Status	Description
Off	No data communication on RJ45 connector
Flashing	Data communication on RJ45 connector
On	Heavy network traffic

### LINK1 and LINK2

These green LEDs show whether the Ethernet cable is properly connected.

Status	Description
Off	No Ethernet link on RJ45 connector
On	Ethernet link on RJ45 connector is OK

## 6. Fault finding

### 6.1 Modbus TCP/BACnet IP

You can detect faults in a module by observing the status of the two status LEDs. See the tables below.

#### CIM 500 fitted in a Grundfos product

Fault (LED status)	Possible cause	Remedy
1. Both LEDs remain off when the power supply is connected.	a) The module is fitted incorrectly in the Grundfos product.	Check that the module is fitted/connected correctly.
	b) The module is defective.	Replace the module.
2. LED2 is flashing red.	a) No internal communication between the module and the Grundfos product.	Check that the module is fitted correctly.
3. LED2 is permanently red.	a) The module does not support the Grundfos product connected.	Contact the nearest Grundfos company.
4. LED1 is permanently red.	a) Fault in the Modbus/BACnet configuration of the module.	Modbus: Check that SW1 is set to "1". Check that the Modbus IP address configuration is correct. See section <a href="#">Modbus TCP configuration</a> on page 16. BACnet: Check that SW1 is set to "2". Check that the BACnet IP address configuration is correct. See section <a href="#">BACnet IP configuration</a> on page 17.
5. LED1 is permanently red and green at the same time.	a) Error in firmware download.	Use the web server to download the firmware again. See section <a href="#">Update</a> on page 25.
6. LED2 is permanently red and green at the same time.	a) Memory fault.	Replace the module.



## CIM 500 fitted in a CIU 500

Fault (LED status)	Possible cause	Remedy
1. Both LEDs remain off when the power supply is connected.	a) The CIU 500 is defective.	Replace the CIU 500.
2. LED2 is flashing red.	a) No internal communication between the CIU 500 and the Grundfos product.	<ul style="list-style-type: none"> <li>• Check the cable connection between the Grundfos product and the CIU 500.</li> <li>• Check that the individual conductors have been connected correctly, e.g. not reversed.</li> <li>• Check the power supply to the Grundfos product.</li> </ul>
3. LED2 is permanently red.	a) The module does not support the Grundfos product connected.	Contact the nearest Grundfos company.
4. LED1 is permanently red.	a) Fault in the Modbus/BACnet configuration of the module.	<p>Modbus: Check that SW1 is set to "1".</p> <p>Check that the Modbus IP address configuration is correct. See section <a href="#">Modbus TCP configuration</a> on page 16.</p> <p>BACnet IP: Check that SW1 is set to "2". Check that the BACnet IP address configuration is correct. See section <a href="#">BACnet IP configuration</a> on page 17.</p>
5. LED1 is permanently red and green at the same time.	a) Error in firmware download.	Use the web server to download the firmware again. See section <a href="#">Update</a> on page 25.
6. LED2 is permanently red and green at the same time.	a) Memory fault.	Replace the module.

## 6.2 PROFINET IO

### CIM 500 fitted in a Grundfos product

Fault (LED status)	Possible cause	Remedy
1. Both LEDs remain off when the power supply is connected.	a) The module is fitted incorrectly in the Grundfos product.	Check that the module is fitted/connected correctly.
	b) The module is defective.	Replace the module.
2. LED1 remains off.	a) SW1 is set to "1".	Set the switch to "0".
3. LED2 is flashing red.	a) No internal communication between the module and the Grundfos product.	Check that the module is fitted correctly in the Grundfos product.
4. LED2 is permanently red.	a) The module does not support the Grundfos product connected.	Contact the nearest Grundfos company.
5. LED1 is permanently red.	a) The module does not support the Grundfos product connected.	Contact the nearest Grundfos company.
	b) SW1 in illegal position.	Set the switch to "0".
6. LED1 is flashing red.	a) Fault in the PROFINET IO configuration of the module.	Check that the right GSDML file is used. Check that PROFINET IO IP address configuration is correct. Check device name in CIM 500 and PROFINET IO master. Restart the CIM 500. Use the RESTART button on the web server. See section <a href="#">PROFINET IO configuration</a> on page 18.
7. LED1 is pulsing red.	a) Connection to master lost.	Check cables. Check master is running.
8. LED1 is permanently red and green at the same time.	a) Error in firmware download.	Use the web server to download the firmware again. See section <a href="#">Update</a> on page 25.
9. LED2 is permanently red and green at the same time.	a) Memory fault.	Replace the module.

## CIM 500 fitted in a CIU 500

Fault (LED status)	Possible cause	Remedy
1. Both LEDs remain off when the power supply is connected.	a) The CIU 500 is defective.	Replace the CIU 500.
2. LED1 remains off.	a) SW1 is set to "1".	Set the switch to "0".
3. LED2 is flashing red.	a) No internal communication between the CIU 500 and the Grundfos product.	Check the cable connection between the Grundfos product and the CIU 500. Check that the individual conductors have been connected correctly, e.g. not reversed. Check the power supply to the Grundfos product.
4. LED2 is permanently red.	a) The module does not support the Grundfos product connected.	Contact the nearest Grundfos company.
5. LED1 is permanently red.	a) The module does not support the Grundfos product connected.	Contact the nearest Grundfos company.
	b) SW1 in illegal position.	Set the switch to "0".
6. LED1 is flashing red.	a) Fault in the PROFINET IO configuration of the module.	Check that the right GSDML file is used. Check that PROFINET IO IP address configuration is correct. Check device name in CIM 500 and PROFINET IO master. Restart the CIM 500. Use the RESTART button the web server. See section <a href="#">PROFINET IO configuration</a> on page 18.
7. LED1 is pulsing red.	a) Connection to master lost.	Check cables. Check master is running.
8. LED1 is permanently red and green at the same time.	a) Error in firmware download.	Use the web server to download the firmware again. See section <a href="#">Update</a> on page 25.
9. LED2 is permanently red and green at the same time.	a) Memory fault.	Replace the module.

## 6.3 GRM IP

### CIM 500 fitted in a Grundfos product

Fault (LED status)	Possible cause	Remedy
1. Both LEDs remain off when the power supply is connected.	a) The module is fitted incorrectly in the Grundfos product.	Check that the module is fitted/connected correctly.
	b) The module is defective.	Replace the module.
2. LED1 remains off.	a) SW1 is set to "1".	Set the switch to "4".
3. LED2 is flashing red.	a) No internal communication between the module and the Grundfos product.	Check that the module is fitted correctly in the Grundfos product.
	b) No GRM driver loaded.	Connect to GRM server and run the four-step wizard.
4. LED1 is flashing green.	a) 120 seconds startup phase.	
5. LED1 is permanently red.	a) The module does not support the Grundfos product connected.	Contact the nearest Grundfos company.
	b) SW1 in illegal position.	Set the switch to "4".
6. LED1 is flashing red.	a) GRM communication lost, or no communication to GRM server.	Check ethernet cable in router. Check router settings. Check router related SIM card. Check that the contract with Grundfos is valid and there is access to the GRM data.
7. Can't access the CIU 500 on the GRM interface.	a) No connection to the GRM server.	Check that you use the lowest MAC address (lowest number) of the two ports of CIM 500 (see sticker on the module) requires a contract with Grundfos and granted access to GRM)

**CIM 500 fitted in a CIU 500 (FOR GRM)**

<b>Fault (LED status)</b>	<b>Possible cause</b>	<b>Remedy</b>
1. Both LEDs remain off when the power supply is connected.	a) The CIU 500 is defective.	Replace the CIU 500.
2. LED1 remains off.	a) SW1 is set to "1".	Set the switch to "4".
3. LED2 is flashing red.	a) No internal communication between the CIU 500 and the Grundfos product. b) No GRM driver loaded.	Check the cable connection between the Grundfos product and the CIU 500. Connect to GRM server and run the 4-step wizard.
4. LED1 is flashing green.	a) 120 seconds startup phase.	LED1 is flashing green.
5. LED1 is permanently red.	a) The module does not support the Grundfos product connected. b) SW1 in illegal position.	Contact the nearest Grundfos company. Set the switch to "4".
6. LED1 is flashing red.	a) GRM communication lost, or no communication to GRM server.	Check ethernet cable in router. Check router settings. Check router related SIM card. Check that the contract with Grundfos is valid and there is access to the GRM data.
7. Can't access the CIU 500 on the GRM interface.	a) No connection to the GRM server.	Check that you use the lowest MAC address (lowest number) of the two ports of CIM 500 (see sticker on the module) requires a contract with Grundfos and granted access to GRM)

**7. Technical data**

<b>Internet protocol</b>	
Application layer	DHCP, HTTP, Ping
Transport layer	TCP
Internet layer	Internet protocol V4 (IPv4)
Link layer	ARP, media access control (Ethernet)
Ethernet cable	Screened, twisted-pair cables, CAT5, CAT5e or CAT6
Transmission speed	10 Mbit/s, 100 Mbit/s (auto-detected)
Industrial Ethernet protocols	PROFINET IO, Modbus TCP, BACnet IP, GRM IP (requires a contract with Grundfos)
Supply voltage	5 VDC $\pm$ 5 %, $I_{max}$ . 350 mA
Storage temperature	-25 °C to +70 °C -13 °F to +158 °F

**8. Service****8.1 Service documentation**

Service documentation is available on [www.grundfos.com](http://www.grundfos.com) > International website > WebCAPS > Service.

If you have any questions, please contact the nearest Grundfos company or service workshop.

**9. Disposal**

This product or parts of it must be disposed of in an environmentally sound way:

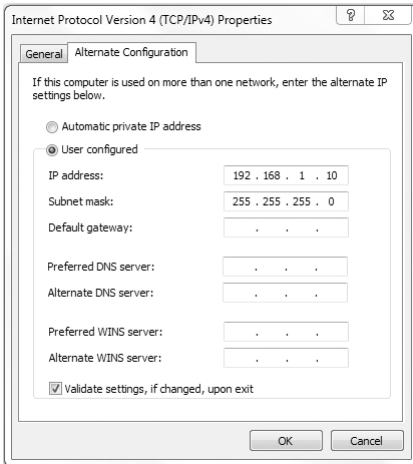
1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

Subject to alterations.

## Appendix

### How to configure an IP address on your PC

1. Open "Control Panel".
2. Select "Network and Sharing Center".
3. Click [Change adapter settings].
4. Right-click and select "Properties" for the Ethernet adapter. Typically "Local Area Connection".
5. Select properties for "Internet Protocol Version 4 (TCP/IPv4)".
6. Select the "Alternate Configuration" tab and enter the IP address and subnet mask of your PC. See fig. 1.



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Fig. 1 Example from Windows 7

### Web server configuration

The built-in web server offers easy monitoring of the CIM 500 module and makes it possible to configure functions and Industrial Ethernet protocols. By means of the web server you can also update the firmware of the CIM 500 module and store/restore settings.

To connect a PC to the CIM 500, proceed as follows:

1. Connect the PC and the module, using an Ethernet cable.
2. Configure the Ethernet port of the PC to the same network as the CIM 500, e.g. 192.168.1.101. See section [How to configure an IP address on your PC](#).
3. Open a standard Internet browser and type 192.168.1.100 in the URL field.
4. Log in to the web server. See fig. 2

# Login

The screenshot shows a web interface for logging into a Grundfos system. At the top left is the Grundfos logo. Below it is a sidebar menu with the following items: Information, System, Version, Licence, Login, and Contact. The main content area is titled 'Login' and contains two input fields: 'Username:' with the text 'admin' and 'Password:'. Below these fields is a 'Submit' button.

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**Fig. 2** Login

Object	Description
<b>Username</b>	Enter username. Default: admin. You can change the username via the User Management web page. See page <a href="#">24</a> .
<b>Password</b>	Enter password. Default: Grundfos. You can change the password via the User Management web page. See page <a href="#">24</a> .

## Modbus TCP configuration

**GRUNDFOS**

**Information**

- System
- Version
- Licence

**Configuration**

- Real Time Ethernet Protocol**
- Network Settings
- GENipro TCP Protocol
- Email
- Time
- User Management
- Firmware Update

Logout

Contact

**Real Time Ethernet Protocol Configuration - Modbus TCP**

**Protocol Settings**

TCP Port Number:

IP Address:

Subnet Mask:

Gateway:

Use DHCP:

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Fig. 3 Real Time Ethernet Protocol Configuration - Modbus TCP

Object	Description
<b>TCP Port Number</b>	The default value is 502, the official IANA-assigned Modbus TCP port number. The number 502 will always be active implicitly. If you select another value in the web server configuration field, both the new value and value 502 will be active.
<b>IP Address</b>	The static IP address for the module on the Modbus TCP network.
<b>Subnet Mask</b>	The subnet mask for the module on the Modbus TCP network.
<b>Gateway</b>	The default gateway for the Modbus TCP network.
<b>Use DHCP</b>	The module can be configured to automatically obtain the IP address from a DHCP server on the network.



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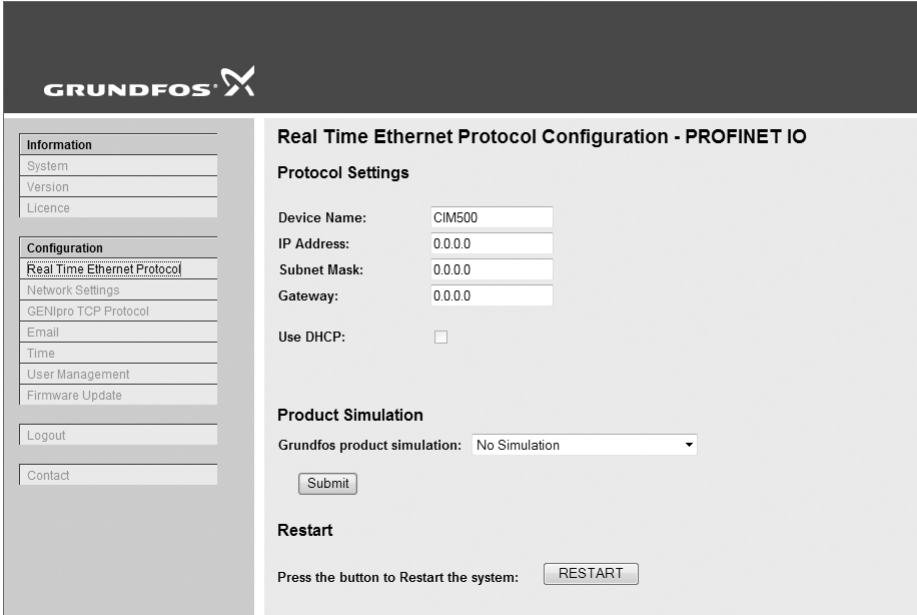
Fig. 4 Real Time Ethernet Protocol Configuration - BACnet IP

Object	Description
<b>UDP Port Number</b>	Select UDP Port Number. The default number is 47808 (the standard UDP port number for BACnet IP).
<b>Device Instance</b>	Select Device Instance. The default number is 22700. The Device Instance must be unique in the BACnet network. Grundfos is 227 and it is fixed. The last three digits can be changed.
<b>Device Name</b>	You can name the device. The device name must be unique in the BACnet network (optional).
<b>Device Location</b>	You can name the device location for local identification (optional).
<b>Max APDU</b>	Select the maximum Application Protocol Data Unit (between 50 and 1476). The default value is 1476 bytes.
<b>Custom device instance enable</b>	If ticked, the CIM 500 is configured to use a BACnet custom device instance number.
<b>Foreign Device</b>	If ticked, the CIM 500 is configured as a foreign device.
<b>IP Address</b>	Enter the foreign IP address.
<b>UDP Port</b>	Select the UDP port number. The default number is 47808.
<b>Re Register Time</b>	Select the time period during which the foreign device must re-register on the BACnet network.

## PROFINET IO configuration

This web page is used to configure all the parameters relevant to the PROFINET IO protocol standard.

All settings can also be configured from a standard PROFINET IO configuration tool, for instance Siemens Primary Setup Tool (PST). The tool is available on the Internet.




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**Fig. 5** RealTime Ethernet Protocol Configuration - PROFINET IO

Object	Description
<b>Device Name</b>	The name of the PROFINET IO device. The name must be unique.
<b>IP Address</b>	The static IP address for the module on the PROFINET IO network.
<b>Subnet mask</b>	Configure the subnet mask for the module on the PROFINET IO network.
<b>Gateway</b>	Configure the default gateway for the PROFINET IO network.
<b>Use DHCP</b>	The module can be configured to automatically obtain the IP address from a DHCP server on the network.
<b>Grundfos product simulation</b>	<p>The module can be put in product simulation mode to generate realistic simulated values of all the PROFINET IO input data modules. It will thus be possible to connect a PROFINET IO master to a module fitted in a CIU or an E-box without installing this device in a real industrial process system. In an office environment, it can then be verified that communication works and data are received and handled correctly by the PROFINET IO master application program (e.g. PLC program) before installing the device.</p> <p>To enable product simulation, select a product type from the dropdown list. To terminate product simulation, switch the module off and on or select "no simulation"</p>
<b>Restart</b>	Press the restart button if the LED1 flashes red which indicates a wrong or missing PROFINET IO configuration

## GRM IP configuration

The GRM webserver has a default setting of GRM server URL and DHCP activated

**GRUNDOS**  Grundfos CIM

**Information**

- System
- Version
- Licence

**Configuration**

- Real Time Ethernet Protocol**
- Network Settings
- GENpro TCP Protocol
- Email
- Time
- User Management
- Firmware Update
- Logout
- Contact

**Real Time Ethernet Protocol Configuration - GRM IP**

Please do not change the below settings unless instructed by Grundfos certified personnel.

Changing the settings might result in nonoperational system.

GRMIP Port Number:

URL:

Check to Update the Settings:

**Default setting of GRM server address**

Press DEFAULT button to revert to the defaults factory settings for the above in case of connection errors

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**Fig. 6** Real time ethernet protocol configuration

Object	Description
<b>GRMIP port number</b>	A change is only needed in case Grundfos requires it
<b>URL</b>	The default URL link to the GRM Server is active but hidden. A change is only needed in case Grundfos requires it.
<b>Default Setting of GRM Server address</b>	Set the URL link to GRM server to default value (only needed if a manual URL was typed in and should be changed back).

**Note**

You need a contract with Grundfos and an external router with internet connection to gain access to the GRM server.

## Network settings

**GRUNDFOS**

**Information**

- System
- Version
- Licence

**Configuration**

- Real Time Ethernet Protocol
- Network Settings**
- GENipro TCP Protocol
- Email
- Time
- User Management
- Firmware Update

Logout

Contact

**Network Settings**

This setting is used for: Web Server  
BACnet IP  
GENipro TCP

**IP Address:** 192.168.1.100

**Subnet Mask:** 255.255.255.0

**Gateway:** 0.0.0.0

**DNS Server:** 0.0.0.0

**Use DHCP:**

Submit

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Fig. 7 Network settings

Object	Description
<b>IP address</b>	Factory setting: 192.168.1.100.
<b>Subnet mask</b>	Factory setting: 255.255.255.0.
<b>Gateway</b>	Factory setting: 192.168.1.1.
<b>DNS Server</b>	The module can be configured to use a specific domain name server. Factory setting: 0.0.0.0.
<b>Use DHCP</b>	The module can be configured to automatically obtain the IP address from a DHCP server on the network. Factory setting: Do not use DHCP.

## GENIpro TCP port settings

### TCP Port Number

The module can transfer data from a Grundfos PC tool to the product via the GENIpro protocol.

The screenshot shows the Grundfos web interface for GENIpro TCP port settings. On the left is a navigation menu with two main sections: 'Information' (containing System, Version, Licence) and 'Configuration' (containing Real Time Ethernet Protocol, Network Settings, GENIpro TCP Protocol, Email, Time, User Management, Firmware Update, Logout, and Contact). The 'GENIpro TCP Protocol' option is highlighted. The main content area is titled 'GENIpro TCP port settings' and features a 'Protocol Settings' section. Under this section, there is a 'TCP Port Number' label followed by an input field containing the value '49152'. Below the input field is a 'Submit' button.

TM05 6067 1814

**Fig. 8** GENIpro TCP port settings

Object	Description
<b>TCP Port Number</b>	The TCP port number of the module and that of the PC tool must be identical. Factory setting: 49152.

## Email Configuration

The web server in the module can be set to send an email notification in case of internal module events.

**GRUNDFOS**

**Information**

System  
Version  
Licence

**Configuration**

Real Time Ethernet Protocol  
Network Settings  
GENipro TCP Protocol  
**Email**  
Time  
User Management  
Firmware Update

Logout  
Contact

**Email Configuration**

SMTP Server: 0.0.0.0

Sender Address: \_\_\_\_\_

Receiver Address: \_\_\_\_\_

Send an Email on the following events:

	Yes	No
Change in connection state:	<input checked="" type="radio"/>	<input type="radio"/>
Device configuration changed:	<input type="radio"/>	<input checked="" type="radio"/>
Fatal Error:	<input checked="" type="radio"/>	<input type="radio"/>
Diagnosis appear/diasappear:	<input type="radio"/>	<input checked="" type="radio"/>

Submit

TM05 6068 18 14

**Fig. 9** Email Configuration

Object	Description
<b>SMTP Server</b>	Enter the IP address of the SMTP server. If you enter a URL, the module will look it up via a DNS server and replace it with the IP address.
<b>Sender Address</b>	Enter the email address of the sender.
<b>Receiver Address</b>	Enter the email address of the receiver.
<b>Send an Email on the following events</b>	Select which events are to trigger an email.

## Time Configuration

This web page is used to configure the CIM 500 clock.

The screenshot shows the Grundfos Time Configuration web interface. On the left is a sidebar menu with the following items: Information (System, Version, Licence), Configuration (Real Time Ethernet Protocol, Network Settings, GENipro TCP Protocol, Email, Time, User Management, Firmware Update), Logout, and Contact. The main content area is titled 'Time Configuration' and contains the following fields: SNTP Server (0.0.0.0), Current time (01:06:13), Current date (01.01.1970), and UTC offset (+0100). A 'Submit' button is located below the UTC offset field. The Grundfos logo is visible at the top left of the interface.

TM05 6069 1814

**Fig. 10** Time Configuration

Object	Description
<b>SNTP Server</b>	Enter the IP address of the SNTP server and the CIM 500 will automatically adjust its clock. If you do not configure the SNTP server, or the connection is lost, the module will use the internal clock. If you enter a URL, the module will look it up via a DNS server and replace it with the IP address.
<b>Current time</b>	Set the time manually.
<b>Current date</b>	Set the date manually.
<b>UTC offset</b>	The difference in hours and minutes from Universal Time, Coordinated (UTC) for a particular time. If no SNTP server is used, it is not necessary to configure the UTC offset. Example: The local time in a time zone which observes UTC-1 is calculated by subtracting 1 hour from the UTC.

**Note**

The CIM 500 does not include any battery backup for the real-time clock. Time settings will therefore not be saved if the power supply is interrupted.

## User Management

You must log in to use the built-in web server for configuration. The usernames and passwords can be configured from this page. The web server operates with two types of user:

1. Administration
  - Access to all configurations/functions.
2. Configuration which gives access to:
  - Real Time Ethernet Protocol
  - Application
  - GENIpro TCP
  - Email
  - Time
  - User Management (username and password of the configuration user).

You can change username and password in the text boxes and save them with [Submit]. You can change the administration password to an empty string.



**GRUNDFOS**

**User Management**

Type	Username	Password
Configuration	config	Grundfos
Administration	admin	

**Configuration:** User with limited access rights.

The following settings are available:

- Real Time Ethernet Protocol
- Web Server
- GENIpro TCP
- Email
- Time
- User Management

The user can only change the login information for the Configuration user.  
Access to firmware upload and backup/restore is denied.

**Administration:** User has all access rights.



## Update

You can update the firmware by means of the built-in web server. The binary file is supplied by Grundfos.

## Configuration

To make installation and configuration easier, you can upload the configuration to a PC for backup or distribution to multiple modules.

The screenshot shows the Grundfos web interface. On the left is a navigation menu with sections: Information (System, Version, Licence), Configuration (Real Time Ethernet Protocol, Network Settings, GENIpro TCP Protocol, Email, Time, User Management, Firmware Update), Logout, and Contact. The main content area is titled 'Update' and contains two sections: 'Firmware' and 'Configuration'. The 'Firmware' section has a text input field for the firmware path, a 'Browse...' button, and an 'Update' button. The 'Configuration' section has a text input field for the configuration file path, a 'Browse...' button, and two buttons: 'Download to device' and 'Upload from device'. The Grundfos logo is at the top left of the interface.

TM05 6071 1814

Fig. 12 Update

Object	Description
<b>Firmware</b>	Path to binary firmware image that can be used for updating the module.
<b>Update</b>	Click [Update] to start the update. The procedure takes approximately one minute.
<b>File</b>	Path to the configuration file.
<b>Download to device</b>	Click here to transfer the configuration file to the module.
<b>Upload from device</b>	Click here to upload all settings of the module to a file on your PC.

## Declaration of conformity

**GB: EU declaration of conformity**

We, Grundfos, declare under our sole responsibility that the product CIM 500, to which the declaration below relates, is in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

**CZ: Prohlášení o shodě EU**

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobek CIM 500, na který se toto prohlášení vztahuje, je v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

**DK: EU-overensstemmelseserklæring**

Vi, Grundfos, erklærer under ansvar at produktet CIM 500 som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

**ES: Declaración de conformidad de la UE**

Grundfos declara, bajo su exclusiva responsabilidad, que el producto CIM 500 al que hace referencia la siguiente declaración cumple lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la UE.

**FR: Déclaration de conformité UE**

Nous, Grundfos, déclarons sous notre seule responsabilité, que le produit CIM 500, auquel se réfère cette déclaration, est conforme aux Directives du Conseil concernant le rapprochement des législations des États membres UE relatives aux normes énoncées ci-dessous.

**HR: EU deklaracija sukladnosti**

My, Grundfos, izjavljujemo s punom odgovornošću da je proizvod CIM 500, na koja se izjava odnosi i nastavku, u skladu s direktivama Vijeća dolje navedenih o usklađivanju zakona država članica EU-a.

**IT: Dichiarazione di conformità UE**

Grundfos dichiara sotto la sua esclusiva responsabilità che il prodotto CIM 500, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il ravvicinamento delle legislazioni degli Stati membri UE.

**LV: ES atbilstības deklarācija**

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkts CIM 500, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES dalībvalstu normatīvo aktu tuvināšanu.

**PL: Deklaracja zgodności UE**

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasz produkt CIM 500, którego deklaracja niniejsza dotyczy, jest zgodny z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

**RO: Declarația de conformitate UE**

Noi Grundfos declarăm pe propria răspundere că produsul CIM 500, la care se referă această declarație, este în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

**RU: Декларация о соответствии нормам ЕС**

Мы, компания Grundfos, со всей ответственностью заявляем, что изделие CIM 500, к которому относится нижеприведенная декларация, соответствует нижеприведенным Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

**SI: Izjava o skladnosti EU**

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek CIM 500, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic EU.

**TR: AB uygunluk bildirgesi**

Grundfos olarak, aşağıdaki bildirim konusunu olan CIM 500 ürünlerinin, AB üye ülkelerinin direktiflerini yakınılaştırmalarıyla ilgili duruma aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluğunu bize ait olduğunu beyan ederiz.

**CN: 欧盟符合性声明**

我们，格兰富，在我们的全权责任下声明，产品 CIM 500，即该合格证所指之产品，欧盟使其成员国法律趋于一致的以下理事会指令。

**BG: Декларация за съответствие на ЕО**

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктът CIM 500, за който се отнася настоящата декларация, отговаря на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членци на ЕО.

**DE: EU-Konformitätserklärung**

Wir Grundfos, erklären in alleiniger Verantwortung, dass das Produkt CIM 500, auf das sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmt.

**EE: EÜvastavusdeklaratsioon**

Meie, Grundfos, kinnitame ja kanname ainuiskikulist vastutust selle eest, et toode CIM 500, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastvõetud õigusaktidele ühtlustamise kohta EU liikmesriikides.

**FI: EU-vaatimustenmukaisuusvakuutus**

Grundfos vakuuttaa omalla vastuullaan, että tuote CIM 500, jota tämä vakuutus koskee, on EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukainen seuraavasti.

**GR: Δήλωση συμμόρφωσης ΕΕ**

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι το προϊόν CIM 500, στο οποίο αναφέρεται η παρακάτω δήλωση, συμμορφώνεται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

**HU: EU megfelelősségi nyilatkozat**

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) CIM 500 termék, amelyre az alábbi nyilatkozat vonatkozik, megfelel az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

**LT: ES atitikties deklaracija**

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktas CIM 500, kuriam skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

**NL: EU-conformiteitsverklaring**

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat product CIM 500, waarop de onderstaande verklaring betrekking heeft, in overeenstemming is met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EU-lidstaten.

**PT: Declaração de conformidade UE**

A Grundfos declara sob sua única responsabilidade que o produto CIM 500, ao qual diz respeito a declaração abaixo, está em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da UE.

**RS: Deklaracija o uskladenosti EU**

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod CIM 500, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

**SE: EU-försäkran om överensstämmelse**

Vi, Grundfos, försäkrar under ansvar att produkten CIM 500, som omfattas av nedanstående försäkran, är i överensstämmelse med de rättsdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

**SK: ES vyhlásenie o zhode**

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkt CIM 500, na ktorý sa vyhlásenie uvedené nižšie vzťahuje, je v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

**UA: Декларация відповідності директивам ЕО**

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що виріб CIM 500, до якого відноситься нижченаведена декларація, відповідає директивам ЕО, переліченим нижче, щодо тотожності законів країн-членів ЄС.

**JP: EU 適合宣言**

Grundfos は、その責任の下に、CIM 500 製品が EU 加盟諸国の法規に 関連する、以下の評議会指令に適合していることを宣言します。

**KO: EU**

Grundfos

CIM 500

EU

**BS: Izjava o usklađenosti EU**

Mi, kompanija Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod CIM 500, na koji se odnosi izjava ispod, u skladu sa niže prikazanim direktivama Vijeća o usklađivanju zakona država članica EU.

**ID: Deklarasi kesesuaian Uni Eropa**

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk CIM 500, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan serta sedapat mungkin sesuai dengan hukum negara-negara anggota Uni Eropa.

**MK: Декларација за сообразност на ЕУ**

Ние, Grundfos, изјавуваме под целосна одговорност дека производот CIM 500, на кого се однесува долунаведената декларација, е во согласност со овие директиви на Советот за приближување на законите на земјите-членки на ЕУ.

**KZ: Сәйкестік жөніндегі ЕО декларациясы**

Біз, Grundfos, ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты CIM 500 өнімі біздің жеке жауапкершілігімізде екенін мәлімдейміз.

**MY: Perisytiharan keakuran EU**

Kami, Grundfos, mengisytiharkan di bawah tanggungjawab kami semata-mata bahawa produk CIM 500, yang berkaitan dengan perisytiharan di bawah, akur dengan Perintah Majlis yang disenaraikan di bawah ini tentang penghampiran undang-undang negara ahli EU.

**NO: EUs samsvarsærklæring**

Vi, Grundfos, erklærer under vårt eneansvar at produktet CIM 500, som denne erklæringen gjelder, er i samsvar med Det europeiske råds direktiver om tilnærming av forordninger i EU-landene.

**EU إقرار مطابقة: AR**

نقدر نحن، جرونسفوس، بمقتضى مسؤوليتنا الفردية بأن المنتج CIM 500، الذي يختص به الإقرار أدناه، يكون مطابقاً لتوجيهات المجلس المذكورة أدناه بشأن الترتيب بين قوانين الدول أعضاء المجموعة الأوروبية/الاتحاد الأوروبي (EU).

**TH: คำประกาศความสอดคล้องตามมาตรฐาน EU**

เราในนามของบริษัท Grundfos

ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ CIM 500

ซึ่งเกี่ยวข้องกับคำประกาศนี้มีความสอดคล้องกับระเบียบคำสั่งตามรายการด้านล่างนี้ของสภานิติบัญญัติว่าด้วยค่าประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EU

**TW: EU 合格聲明**

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 CIM 500 產品，符合下列近似 EU 會員國法律之議會指令。

**VI: TUYÊN BỐ TUÂN THỦ EU**

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm CIM 500 mà tuyên bố dưới đây có liên quan tuân thủ các Chỉ thị Hội đồng sau về việc áp dụng luật pháp của các nước thành viên EU.

**AL: Deklara e konformitetit të BE**

Ne, Grundfos, deklarojmë vetëm nën përgjegjësinë tonë se produkti CIM 500, me të cilin ka lidhje kjo deklaratë, është në pajtim me direktivat e Këshillit të renditura më poshtë për përfirimin e ligjeve të shteteve anëtare të BE-së.

– Low Voltage Directive (2014/35/EU).

Standards used:

EN 61010-1:2010

– EMC Directive (2014/30/EU).

Standards used:

EN 61000-6-2:2005; EN 61000-6-4:2007/A1:2011;

EN 55011:2009/A1:2010 Group 1/Class A

This EU declaration of conformity is only valid when published as part of the Grundfos safety instructions (publication number 98407037 0516).

Bjerringbro, 12/1/2016



Svend Aage Kaae

Director

Grundfos Holding A/S

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Person authorised to compile the technical file and empowered to sign the EU declaration of conformity.

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