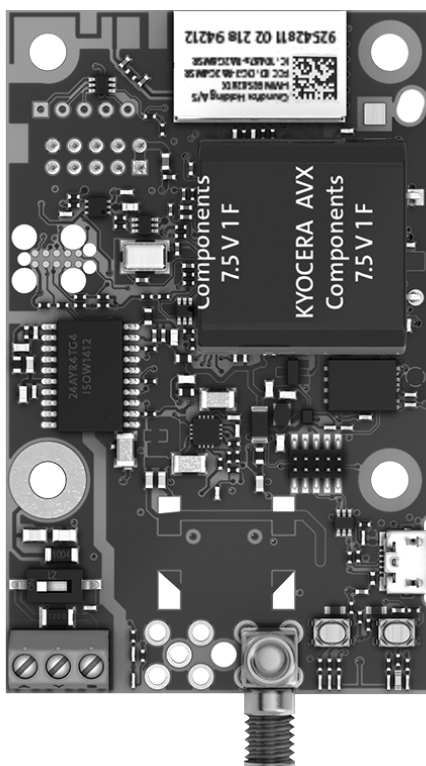


CIM 290-MA LPWAN GiC

Cellular module

Installation and operating instructions



CIM 290-MA LPWAN GiC

English (GB)

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English (GB) Installation and operating instructions

Original installation and operating instructions

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1. General information



Read this document before you install the product. Installation and operation must comply with local regulations and accepted codes of good practice.

1.1 Hazard statements

The symbols and hazard statements below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.



WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.



CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The hazard statements are structured in the following way:

SIGNAL WORD



Description of the hazard

Consequence of ignoring the warning

- Action to avoid the hazard.

1.2 Notes

The symbols and notes below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



Observe these instructions for explosion-proof products.



A blue or grey circle with a white graphical symbol indicates that an action must be taken.



A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.



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



Tips and advice that make the work easier.

2. Abbreviations

BLE	Bluetooth Low Energy
CIM	Communication Interface Module
CIU	Communication Interface Unit
GENI	Grundfos Electronics Network Intercommunication. Proprietary Grundfos fieldbus protocol
GDP	Grundfos iSOLUTIONS Device Protocol
GiC	Grundfos iSOLUTIONS Cloud
GND	Ground
LED	Light Emitting Diode
LTE-M	Long-Term Evaluation Machine. Radio communication technology standard
IMEI	International Mobile Equipment Identity. Unique address for a piece of hardware
PELV	Protective Extra Low Voltage
RSI	Renewable Solar Inverter

3. Product introduction

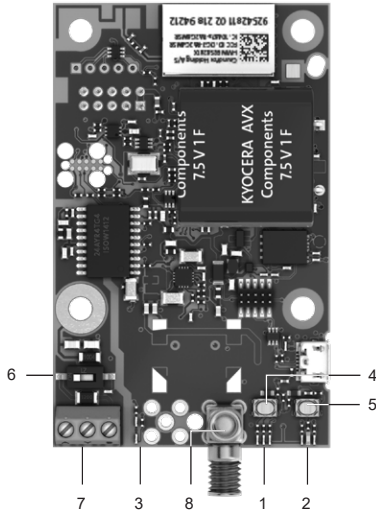
The CIM module enables cellular data transmission based on LTE-M technology between the Grundfos iSOLUTIONS cloud and a Grundfos host product with a CIM GENIbus interface slot, or with a connected Modbus RTU slave device that is supported by the Grundfos iSOLUTIONS cloud.

The Grundfos iSOLUTIONS Cloud requires a subscription.

The CIM 290 module can be bought separately and must be fitted in a CIU unit or in another host product to enable cellular communication.

In this document, "Grundfos product" refers to one or more Grundfos products, depending on the actual application.

3.1 Product overview



TM084699



TM084700

CIM 290 front view

CIM 290 rear view

Pos.	Designation	Description
1	LED1	Y/G/R status indicator light for cellular communication
2	LED2	R/G/B status indicator light for Grundfos product communication
3	LED3	R/G status indicator light for RS-485
4	SW1	Reset device button
5	SW2	Bluetooth pairing button
6	SW3	RS-485 Line termination switch
7	RS-485	GENIbus / Modbus RTU connection
8	ANT	Reverse polarity SMA antenna connector
9	SIM	SIM card slot with preinstalled SIM card

3.2 Intended use

CIM 290-MA LPWAN GIC enables data transmission based on LTE-M technology between the Grundfos iSOLUTIONS cloud (GiC) and a Grundfos host product with a CIM GENIbus interface slot, or to a connected Modbus RTU slave device via the external RS-485 port which is supported by the Grundfos iSOLUTIONS cloud.

The products supported depend on the implemented drivers on the Grundfos iSOLUTIONS cloud. Contact Grundfos for the latest information on the supported products.

Configuration of CIM 290 can be done via Grundfos GO using BLE wireless communication.

For detailed instructions about mounting and retrofitting the CIM module on pumps, refer to the Installation and operating instructions of the Grundfos host product.

3.3 Applications

CIM (Communication Interface Module) 290 4G (LTE-M) cellular-based interface transmits data from a host product via cellular LTE-M technology to a Grundfos iSOLUTIONS Cloud application, for example, Grundfos Connect. A separate contract may be required for data hosting and cellular data traffic. The product requires a connected LTE antenna. The CIM module is preconfigured with a SIM card that has a Grundfos specific LTE-M roaming profile.

Information about how to mount a CIM interface onto a Grundfos product is described in the Installation and operating instructions of the product itself.

Retrofitting of the CIM 290 is described in the Installation and operating instructions of the Grundfos product.

3.4 Supported products

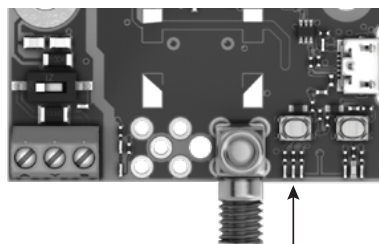
Contact Grundfos for the latest information on which products are supported.

3.5 RS-485 communication interface

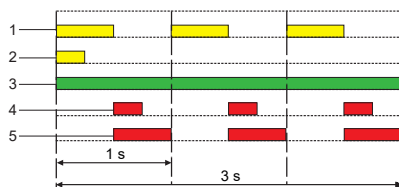
A Modbus RTU slave device can be connected to the connector of the RS-485 communication interface. The communication settings for baud rate, start/stop bits and parity bits can be configured via the BLE interface and Grundfos GO, or from the cloud.

3.6 LEDs

CIM 290 cellular communication, LED1



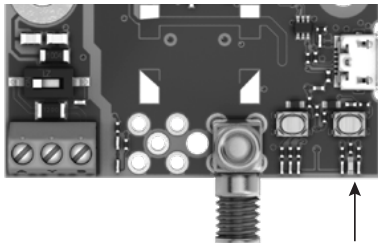
TM084701



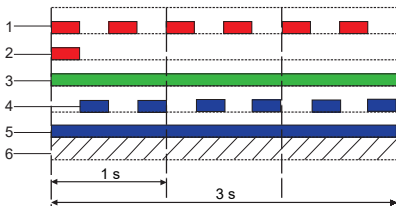
TM084876

Pos.	Colour	Description
1	Flashing yellow	Searching for cellular network
2	Pulsating yellow (single pulse)	Cellular network active
3	Permanent green	Data exchange to Grundfos iSOLUTIONS Cloud
4	-	For future use
5	-	For future use

Internal communication to product, LED2



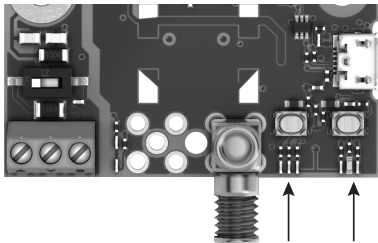
TM084702



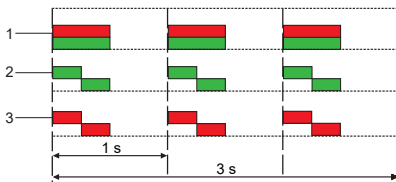
TM084877

Pos.	Colour	Description
1	Pulsating red (single pulse)	CIM 290 is commissioned, but communication with the product is lost
2	Pulsating red (single pulse)	Product profile not downloaded from Grundfos Remote Management/ Grundfos iSOLUTIONS Cloud
3	Permanent green	Internal communication with Grundfos product is stable
4	Pulsating blue (single pulse)	Confirming BLE connection
5	Permanent blue	BLE communication active
6	-	LED is switched off during firmware upgrades

Firmware upgrade, LED1 and LED2



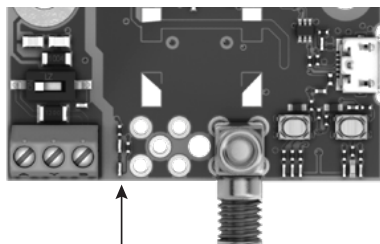
TM084703



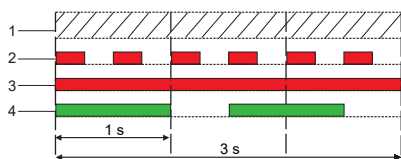
TM084878

Pos.	Colour	Description
1	Flashing red and green	Firmware upgrade in progress, LED2
2	-	For future use
3	-	For future use

RS-485 Modbus master, LED3



TM084704



TM085117

Pos.	Colour	Description
1	-	RS-485 is not used: LED is off
2	Pulsating red (single pulse)	RS-485 Modbus RTU (Master): communication failure
3	Permanent red	RS-485 Modbus RTU (Master): configuration error
4	Flashing green	RS-485 Modbus RTU (Master): Modbus is sending or receiving data

Related information

6.1 Connecting the power supply

8.1 LED1 and LED2 remain off when the power supply is connected

8.2 LED2 for internal communication is flashing red

8.3 LED2 for internal communication is permanently red

8.4 LED1 is flashing yellow

8.5 LED3 for RS-485 interface is flashing red

4. Installation requirements

WARNING

Electric shock

Death or serious personal injury



- Connect the CIM 290 only to a Grundfos host product with a dedicated CIM interface.
- Installation must be carried out by qualified and trained experts.

4.1 Security

The CIM module provides a secure way of performing cellular data transmission to the cloud. It uses encryption and mutual authentication based on X.509 certificates for access authentication. The CIM module does not accept any incoming connection attempts from the cellular network.

The CIM module acts as fieldbus master for the GENibus and Modbus RTU protocols. These protocols use the underlying RS-485 communication. As this does not have any built-in security, it is highly recommended to allow physical access to the installation to authorized personnel only, and otherwise adhere to the initiatives suggested in the local risk assessment if available.

4.2 RF safety



Installers and end users must be provided with these installation and operating instructions and operating conditions for satisfying RF exposure compliance.

WARNING

Radiation

Minor or moderate personal injury



- The antenna used for the product in which the CIM module is fitted must be installed with a separation distance of at least 20 cm (0.66 feet) from persons, and must not be co-located or operated in conjunction with any other antenna or transmitter.

Interference of other electronic equipment may occur if the equipment is inadequately protected.

4.3 External cellular antenna requirements



The combined gain of the cable and antenna solution used for this product must not exceed 2.0 dBi.



The installation room must have stable network coverage.



The external antenna must be installed outside the control cabinet.



The external antenna must have an SMA connector.



An external antenna must always be connected to the CIM module.

4.3.1 Technical requirements (for US only)

Grundfos does not supply an external antenna with the product. The antenna must meet applicable RF regulations. Make sure you choose the antenna based on the following specifications:

Type	Dipole
Form factor	External antenna
Frequency	700 MHz (SMH700) to 1900 MHz (PCS1900)
Bandwidth	LTE Band 4 (445MHz) LTE Band 5 (70MHz) LTE Band 12 (47MHz) LTE Band 13 (41MHz) LTE Band 25 (145MHz) LTE Band 26 (80MHz) LTE Band 66 (490MHz) LTE Band 85 (48MHz)
Impedance	50 Ohm
Polarization	Vertical
Gain	< 2.0 dBi

[Click here to see the recommended Grundfos external cellular antenna.](#)

4.4 Radio frequency radiation exposure information (for Canada and US only)

CAUTION Radiation

Minor or moderate personal injury

- This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with a minimum distance of 20 cm (0.66 feet) between the radiator and your body.
- This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.



Model: CIM 290-MA LPWAN GIC

The host product needs to be labelled with the following information:



HMN name: _____
Contains FCC ID: OG3-CIM290LPWAN
Contains IC: 10447A-CIM290LPWAN.

The enclosed FCC label must be attached near the nameplate on the product in which the CIM module is installed. The label must be visible and easily accessible. Remember to write the host marketing name (HMN) on the label according to the Installation and operating instructions of the host product.

Check the manual of the host pump and make sure that CIM 290 is supported.



This device complies with Part 15 of the FCC Rules and with license exempt RSSs of Innovation, Science & Economic Development Canada.

Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.



Changes or modifications made to this equipment not expressly approved by Grundfos may void the FCC authorization to operate this equipment.

4.5 EMC statements for USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Related information

[A.1. FCC regulatory notices](#)

4.6 Safety precautions for UK



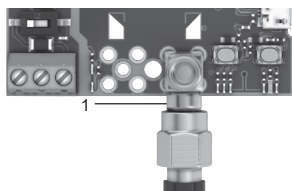
The CIM module is not intended for use in any home appliance, home automation, home control system or consumer product in the UK.

5. Installation

5.1 Fitting a cellular antenna

The antenna for CIM 290 must be connected to the module to establish a connection to the cellular network.

1. Connect the external antenna cable to the SMA connector (pos. 1) of the CIM 290 manually.



The external antenna must always be connected to the CIM 290.

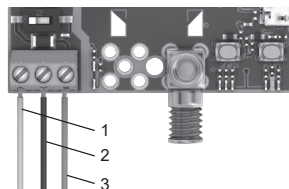
5.2 Connecting the RS-485 communication interface

1. Connect the wires according to the below table.



SW2 line termination needs to be switched on if the unit is the last device on a subnet.

LED3 shows the status of the RS-485 communication.



Pos.	Description
1	RS485, A (+), D1, Data
2	RS485, Y, GND
3	RS485, B (-), D0, Data



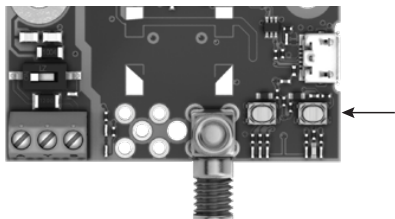
The RS-485 port must only be connected to PELV circuits.

The RS-485 port should be used for local firmware updates via GENIBus to CIMCIU PC tool, or for connecting external Modbus RTU slave fieldbus devices.

Related information

[3.5 RS-485 communication interface](#)

5.3 Activating BLE



TM084705

CIM 290 with BLE pairing button

1. Press the BLE pairing button for wireless communication with Grundfos GO via BLE. Grundfos GO must be installed on your mobile phone.
2. Pair CIM 290 with the mobile phone.



Pressing the BLE button for more than 15 seconds resets the current BLE pairing process.

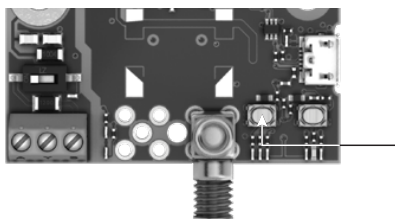
5.4 Configuration via Grundfos GO

CIM 290 may be configured via Grundfos GO. If required, the parameter for the RS-485 Modbus RTU master interface has to be configured (baud rate, parity bits, start/stop bits, activation, address). The Initial Startup Wizard guides you through the setup.

5.5 Local firmware update

The local firmware on the CIM module can be updated via RS-485 port using the Grundfos Selfprogrammer tool.

5.6 Factory reset



TM084706

1. Press the reset button for 5 seconds to start a factory reset.

6. Electrical connection

WARNING

Electric shock

Death or serious personal injury



- Connect CIM only to a Grundfos host product with a dedicated CIM interface.

6.1 Connecting the power supply



When installed by factory, LED2 on the CIM module is permanently red until the product driver is downloaded from the cloud.

1. Switch on the power supply. The CIM module is powered by the Grundfos product in which it is fitted.
 - a. LED1 is flashing yellow (searching for cellular network). When the connection to the cellular network is established, LED1 pulsates yellow (cellular network active).
 - b. LED2 is permanently green (internal communication between the CIM module and the Grundfos product is stable).

Related information

[3.6 LEDs](#)

7. Startup



Be aware that the initial powering of the device can take 5-10 seconds due to the power-up sequences.

8. Fault finding

Various faults of the CIM module can be detected by observing the status of the three communication LEDs.

8.1 LED1 and LED2 remain off when the power supply is connected

Cause	Remedy
The CIM module is fitted incorrectly in the Grundfos product.	Make sure that the CIM module is fitted correctly in the Grundfos product.
The CIM module is defective.	Replace the CIM module. Contact Grundfos.
If the CIM module is fitted in a CIU 90xbox:	Check the power supply for the CIU 90x box.

Related information

[3.6 LEDs](#)

8.2 LED2 for internal communication is flashing red

Cause	Remedy
There is no internal communication between the CIM module and the Grundfos product.	Make sure that the CIM module is fitted correctly in the Grundfos product.
If the CIM module is fitted into a CIU 90x box:	Make sure that the GENIbus cable to the product and possible wires are connected properly on clamps A-Y-B (and are not mixed).

Related information

[3.6 LEDs](#)

8.3 LED2 for internal communication is permanently red

Cause	Remedy
The CIM module does not support the Grundfos product.	Contact Grundfos.
The CIM module is not configured. The product driver is not downloaded from the cloud yet. When the CIM module is switched on, LED2 may turn green for 1 minute before it turns permanently red.	Run the setup process in the cloud. Contact Grundfos.

Related information

[3.6 LEDs](#)

8.4 LED1 is flashing yellow

LED1 is flashing with a one-second interval.

Cause	Remedy
The SIM card is not inserted.	Insert the SIM card.
The SIM card is not inserted correctly.	Insert the SIM card correctly.
The PIN code of the SIM card is not removed or set to 4321.	Remove the PIN code or set it to 4321 with a mobile phone.
No connection to the cellular network.	- Check the connection to the antenna. - Check the cellular coverage of the area with, for instance, a mobile phone. - Experiment with the position of the external antenna. - In some cases, adding an additional antenna to the second SMA connector may improve the signal.

Related information

[3.6 LEDs](#)

8.5 LED3 for RS-485 interface is flashing red

Cause	Remedy
Communication to Modbus RTU slaves is not working.	• Make sure that the slaves have unique Modbus RTU addresses. • Check the Modbus RTU parameter settings, such as baud rate, parity bits, start/stop bits. • There is no cloud driver for the Modbus RTU slave device loaded to the CIM module.

Related information

[3.6 LEDs](#)

8.6 No data is coming from the product

Cause	Remedy
The SIM card is dislocated.	• Reinsert the SIM card into the SIM slot. The slanted edge of the SIM card must point upwards.
The antenna conditions are not optimal.	• Improve the antenna conditions. See section Antenna requirements.
Other faults.	• Contact Grundfos.

Related information

[4.3 External cellular antenna requirements](#)

8.7 No BLE connection between the CIM module and the smart phone

Cause	Remedy
Bluetooth is unresponsive on your mobile phone.	• Disable and enable Bluetooth again.
BLE connection error.	• Delete the Grundfos product from the Bluetooth list on your mobile phone and pair it again. • Restart the Grundfos product. • Update BLE firmware to the latest version to fix this issue permanently. Firmware upgrades for specific products are being prepared, contact Grundfos for more details.

9. Technical data

Electrical data

Power supply	Only use a dedicated interface slot for a CIM module in the Grundfos host product.
Temperature range for operation	-20 to +70 °C (-4 to +158 °F)
Storage temperature	-25 to +60 °C (-13 to +140 °F)

LTE-M cellular data

Mobile station LTE category	LTE Cat M1
Operation-frequency LTE bands	B1 (2100 MHz)
	B2 (1900 MHz)
	B3 (1800 MHz)
	B4 (1700 MHz)
	B5 (850 MHz)
	B8 (900 MHz),
	B12 (700 MHz)
	B13 (700 MHz)
	B18 (850 MHz)
	B19 (850 MHz)
	B20 (800 MHz)
	B25 (1900 MHz)
	B26 (850 MHz)
	B27 (850 MHz)
	B28 (700 MHz)
	B66 (1700 MHz)
	B85 (700 MHz)
Operation-frequency 2G bands	B2 (1900 MHz)
	B3 (1800 MHz)
	B5 (850 MHz)
	B8 (900 MHz)
Output power	LTE: 23 dBm (Power Class 3)
	GSM/GPRS: 33 dBm (Power Class 4)
Cellular antenna, mandatory accessory	SMA antenna connection (max. 2 dBi antenna gain)

Bluetooth information

Frequency of operation	2400 - 2483,5 MHz (ISM band)
Modulation type	GFSK
Maximum data rate	2 Mbps
Transmit power	5 dBm EIRP with internal antenna

Serial communication data

Physical communication layer	RS-485
Modbus wire configuration	- Screened, twisted-pair cable - Min. 0.25 mm² / Min. 23 AWG - Conductors: D0, D1 and common
GENIbus wire configuration	- Screened, twisted-pair cable - Min. 0.25 mm² / Min. 23 AWG - Conductors: A (+), B (-) and Y (common)
Maximum cable length	1200 m (4000 ft)
Slave address	1-247 (default 231)
Line termination	- Preset set to "Off" - Position "On" for line termination

10. Decommissioning



Delete all information before decommissioning.

Press the reset button for 5 seconds to start a factory reset.

11. Disposing of the product

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.



The crossed-out wheellie bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol reaches its end of life, take it to a collection point designated by the local waste disposal authorities. The separate collection and recycling of such products will help protect the environment and human health.

See also end-of-life information at www.grundfos.com/product-recycling.

12. Document quality feedback

To provide feedback about this document, scan the QR code using your phone's camera or a QR code app.



FEEDBACK92969681

[Click here to submit your feedback](#)

Appendix A

A.1. FCC regulatory notices

- Applicable FCC rules:
47 CFR Part 15C, 22, 24, 27, 90
- Specific operational use conditions:
This device is intended to be installed in a host. The operational use condition of this device is extended to the host product. Installation and operating instruction of the host product includes all the applicable FCC regulatory notices listed in this Appendix.
- Limited module procedure is not applicable to this device.
- Trace antenna design is not applicable to this device.
- RF exposure statement:
This device is only allowed to be operated in mobile conditions with at least 20 cm distance from a human body, and is not intended to be operated as a portable device. No authorization has been granted for simultaneous transmission with another radio transmitter, except for FCC authorization in accordance with multi-transmitter evaluation procedures. The host product evaluates the compliance and is responsible for FCC-permissive change procedures if needed.
- Antenna information:
This device is only intended to operate with external cellular antenna. The technical requirements are described in this installation and operating instruction. Any antenna having different specification is not authorized for use with this device.
- Label requirement:
The host product shall apply the label inside the packaging to the host device and ensure below text is shown.
Contains FCC ID: OG3-CIM290LPWAN
Contains IC: 10447A-CIM290LPWAN
- Additional testing requirement, FCC part 15B, emission consideration:
This device has been approved by FCC in a standalone mobile condition. The host product is still applicable to the relevant FCC requirements. Additional testing and evaluation are required. FCC part 15B compliance only applies to this device operating together with a CIU 900. All host products equipped with this device should be compliant with FCC part 15B. Contact Grundfos for further assistance.
- Design change disclaimer:
The host product may need an FCC compliance evaluation or testing if this device has design change which grants the FCC approval.

EU declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product CIM 290-MA LPWAN GiC, 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 290-MA LPWAN GiC, na který se toto prohlášení vztahuje, je v souladu s níže uvedenými ustanoveními směrnice Rady pro sbližení právních předpisů členských států Evropského společenství.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produktet CIM 290-MA LPWAN GiC 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 290-MA LPWAN GiC 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 290-MA LPWAN GiC, 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

Mi, Grundfos, izjavljujemo s punom odgovornošću da je proizvod CIM 290-MA LPWAN GiC, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EU-a.

IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che il prodotto CIM 290-MA LPWAN GiC, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

BG: Декларация за съответствие на ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктът CIM 290-MA LPWAN GiC, за който се отнася настоящата декларация, отговаря на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕО.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass das Produkt CIM 290-MA LPWAN GiC, 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 ainuisikulist vastutust selle eest, et toode CIM 290-MA LPWAN GiC, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ liikmesriikides.

FI: EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuote CIM 290-MA LPWAN GiC, 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 290-MA LPWAN GiC, στο οποίο αναφέρεται η παρακάτω δήλωση, συμμορφώνεται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

HU: EU megfeleléségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) CIM 290-MA LPWAN GiC 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 pareiškiamo, kad produktas CIM 290-MA LPWAN GiC, kuriam skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl ES šalių narių įstatymų suderinimo.

LV: ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkts CIM 290-MA LPWAN GiC, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par ES dalībvalstu normatīvo aktu tuvināšanu.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat product CIM 290-MA LPWAN GiC, 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.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasz produkt CIM 290-MA LPWAN GiC, którego deklaracja niniejsza dotyczy, jest zgodny z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

PT: Declaração de conformidade UE

A Grundfos declara sob sua única responsabilidade que o produto CIM 290-MA LPWAN GiC, 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.

RO: Declarația de conformitate UE

Noi Grundfos declarăm pe propria răspundere că produsul CIM 290-MA LPWAN GiC, la care se referă această declarație, este în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

RS: Deklaracija o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod CIM 290-MA LPWAN GiC, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EU.

RU: Декларация о соответствии нормам ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделие CIM 290-MA LPWAN GiC, к которому относится нижеприведённая декларация, соответствует нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

SE: EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkten CIM 290-MA LPWAN GiC, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

SI: Izjava o skladnosti EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek CIM 290-MA LPWAN GiC, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic EU.

SK: EÚ vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkt CIM 290-MA LPWAN GiC, na ktorý sa vyhlásenie uvedené nižšie vzťahuje, je v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

TR: AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan CIM 290-MA LPWAN GiC ürünlerinin, AB üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

UA: Декларація відповідності директивам ЕУ

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що виріб CIM 290-MA LPWAN GiC, до якого відноситься нижченаведена декларація, відповідає директивам ЕУ, переліченим нижче, щодо тотожності законів країн-членів ЄС.

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 290-MA LPWAN GiC 系列，其制造和性能完全符合以下所列欧盟委员会指令。

JP: EU 適合宣言

Grundfos は、その責任の下に、CIM 290-MA LPWAN GiC 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 적합성 선언

Grundfos는 아래의 선언과 관련된 CIM 290-MA LPWAN GiC 제품이 EU 회원국 법률에 기반하여 아래의 이사회 지침을 준수함을 단독 책임 하에 선언합니다.

BS: Izjava o usklađenosti EU

Mi, kompanija Grundfos, izjavljujemo pod vlastitom odgovornošću da je proizvod CIM 290-MA LPWAN GiC, 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 290-MA LPWAN GiC, 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 290-MA LPWAN GiC, на кого се однесува долунаведената декларација, е во согласност со овие директиви на Советот за приближување на законите на земјите-членки на ЕУ.

NO: EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktet CIM 290-MA LPWAN GiC, som denne erklæringen gjelder, er i samsvar med Det europeiske råds direktiver om tilnærming av forordninger i EU-landene.

TH: คำประกาศความสอดคล้องตามมาตรฐาน EU

เราในนามของบริษัท Grundfos ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ CIM 290-MA LPWAN GiC ซึ่งเกี่ยวข้องกับคำประกาศนี้มีความสอดคล้องกับระเบียบคำสั่งตามรายการด้านล่างนี้ของสภาวิชาชีพว่าด้วยค่าประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EU

VI: Tuyên bố tuân thủ EU

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm CIM 290-MA LPWAN GiC 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.

IS: ESB-samræmisyfirlýsing

Við, Grundfos, lýsum því yfir og ábyrgjumst að fullu að varan CIM 290-MA LPWAN GiC, sem þessi yfirlýsing á við um, samræmist tilskipunum ráðs Evrópubandalaganna um samræmingu laga aðildarríkja ESB.

KZ: Сәйкестік жөніндегі ЕО декларациясы

Біз, Grundfos, ЕО мүше елдерінің заңдарына жақын төменде көрсетілген Кеңес директиваларына сәйкес төмендегі декларацияға қатысты CIM 290-MA LPWAN GiC өнімі біздің жеке жауапкершілігімізде екенін мәлімдейміз.

MY: Perisytiharan keakuran EU

Kami, Grundfos, mengisytiharkan di bawah tanggungjawab kami semata-mata bahawa produk CIM 290-MA LPWAN GiC, yang berkaitan dengan perisytiharan di bawah, akur dengan Perintah Majlis yang disenaraikan di bawah ini tentang penghampiran undang-undang negara ahli EU.

AR: إقرار مطابقة الاتحاد الأوروبي (EU)

نقر نحن، جروندفوس، بمقتضى مسؤوليتنا الفردية بأن المنتج CIM 290-MA LPWAN GiC، الذي يختص به الإقرار أدناه، يكون مطابقاً لتوجيهات المجلس المذكورة أدناه بشأن التقريب بين قوانين الدول أعضاء الاتحاد الأوروبي (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 290-MA LPWAN GiC 產品，符合下列近似 EU 會員國法律之議會指令。

AL: Deklara e konformitetit të BE

Ne, Grundfos, deklarojmë vetëm nën përgjegjësinë tonë se produkti CIM 290-MA LPWAN GiC, me të cilin ka lidhje kjo deklaratë, është në pajtim me direktivat e Këshillit të renditura më poshtë për përfaqsimin e ligjeve të shteteve anëtare të BE-së.

- Radio Equipment Directive (2014/53/EU).
Standards used:
EN 61010-1:2010 + A1:2019
EN 61010-2-201:2018
EN 62368-1:2020 + A11:2020
EN 62311:2020
EN 61326-1:2021
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4
EN 301 489-52 V1.2.1
EN 301 908-1 V15.2.1
EN 301 908-13 V13.2.1
EN 301 511 V12.5.1
EN 300 328 V2.2.2
- RoHS Directives : (2011/65/EU and 2015/863/EU).
Standard used:
EN IEC 63000:2018

This EU declaration of conformity is only valid when published as part of the Grundfos safety instructions (publication number 92969683), or the Grundfos installation and operating instructions (publication number 92969681).

Bjerringbro, April 4, 2024



Mikkel Børlum Petersen
Head of PD Solutions & Modules
Grundfos Holding A/S
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www.grundfos.com

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

UK declaration of conformity

UK declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

CIM 290-MA LPWAN GiC

- Radio Equipment Regulations 2017
Standards used:
EN 61010-1:2010 + A1:2019
EN 61010-2-201:2018
EN 62368-1:2020 + A11:2020
EN 62311:2020
EN 61326-1:2021
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4
EN 301 489-52 V1.2.1
EN 301 908-1 V15.2.1
EN 301 908-13 V13.2.1
EN 301 511 V12.5.1
EN 300 328 V2.2.2
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Standards used:
EN IEC 63000:2018

This UK declaration of conformity is only valid when accompanying Grundfos safety instructions (publication number 92969683), or the Grundfos installation and operating instructions (publication number 92969681).

Bjerringbro, April 4, 2024



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Manufacturer and person empowered to sign the UK
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10000538751

Supplier's Declaration of Conformity

FCC Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Unique identifier: CIM 290-MA LPWAN GiC, 92865300

Responsible Party – U.S. Contact Information:

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FCC Compliance Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference re-ceived, including interference that may cause undesired operation.

10000542860

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