

IO 242

Pump module

Installation and operating instructions



IO 242 pump module
 Installation and operating instructions
 Other languages
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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. Product introduction

2.1 Product description

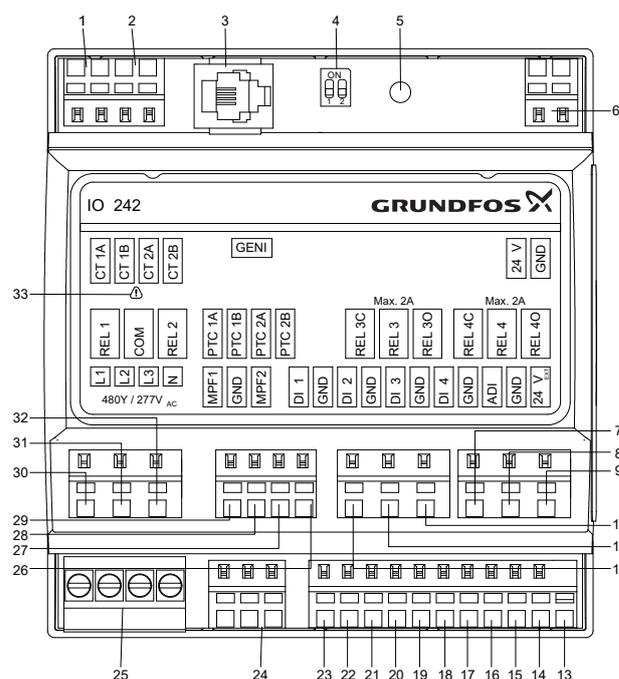
The IO 242 pump module is used together with other Grundfos controllers and modules. With a Grundfos CU 24X control unit, the control unit will control one or two pumps, monitor the running conditions of the pumps and have all the connections to sensors in the pit or tank and pump motors. The pump module provides analog and digital input signals for Grundfos CU 24X. It also provides digital outputs used for external switch gear.

2.2 Intended use, IO 242

The control unit is designed to control one or two pumps. The product can be configured for two purposes: emptying a wastewater pit or filling a pit or tank. The product can be used for network pumping stations, main pumping stations, commercial buildings and municipal systems.

The product must not be exposed to aggressive solvents or oil-containing liquids.

2.3 Terminals



TM072017



Remember to separate potentially low-voltage cables from potentially high-voltage cables when connecting them to the control unit.

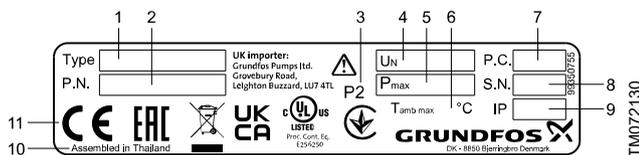
Pos.	Description
1	Current transformer, pump 1. Optional.
2	Current transformer, pump 2. Optional.
3	GENIbus
4	Switch for termination resistor, SW1
5	Not in use
6	Supply voltage, 24 VDC
7	User-configurable output relay 4, normally closed
8	User-configurable output relay 4, common
9	User-configurable output relay 4, normally open
10	User-configurable output relay 3, normally open
11	User-configurable output relay 3, common
12	User-configurable output relay 3, normally closed
13	Supply voltage for sensors, 24 VDC, max. 50 mA
14	Ground, GND
15	User-configurable analog or digital input
16	Ground, GND
17	Digital input 4
18	Ground, GND
19	Digital input 3
20	Ground, GND
21	Digital input 2
22	Ground, GND
23	Digital input 1
24	Motor-protection feedback
25	Phase monitoring
26	Temperature and moisture sensor input, pump 1
27	Temperature and moisture sensor input, pump 1
28	Temperature and moisture sensor input, pump 2
29	Temperature and moisture sensor input, pump 2
30	Relay output, pump 1
31	Common
32	Relay output, pump 2
33	Caution! Only dedicated current transformers can be connected to these terminals.

Related information

[5.1 Connecting the power supply](#)

2.4 Identification

2.4.1 Nameplate



Pos.	Description
1	Product name
2	Version number and product number
3	Factory code
4	Supply voltage
5	Max. power consumption
6	Maximum ambient temperature
7	Production code (year and week)

Pos.	Description
8	Serial number
9	Enclosure class according to IEC
10	Production site
11	Markings and approvals

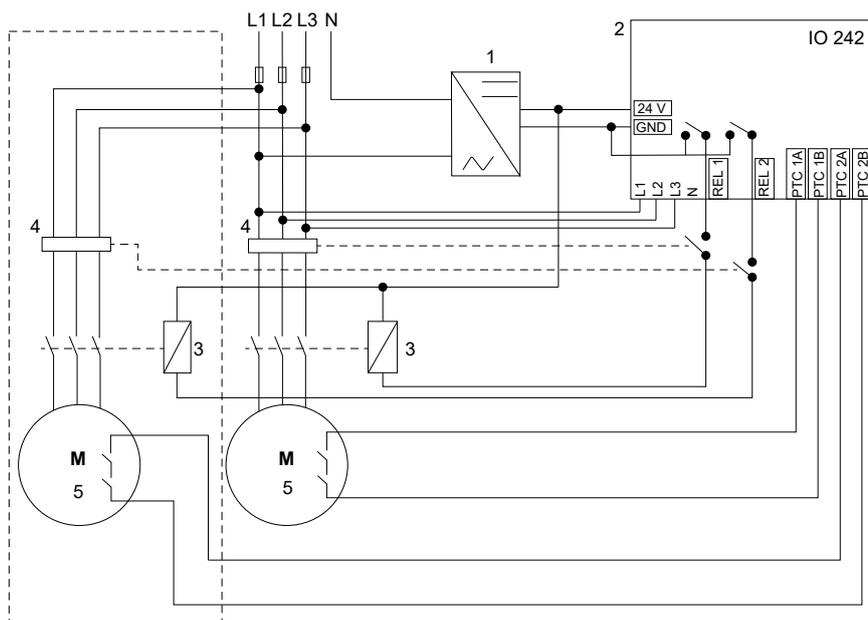
2.5 GENIbus

GENIbus, the Grundfos Electronics Network Intercommunications bus, is a fieldbus developed by Grundfos to meet the need for data transfer in all typical Grundfos motor or pump applications. Grundfos devices with GENIbus can be wired together in networks and integrated in automation systems. Each device on the network must have a unique GENIbus address. GENIbus is based on the RS485 hardware standard and typically operates at a baud rate of 9600 bits/s.

2.6 PTC

The control unit offers a thermal protection, PTC, for the connected motors.

IO 242 is a subassembly ensuring safe stop of the motors. The PTC function fulfills performance level C, category 1, according to ISO 13849. The drawing shows the recommended PTC wiring for IO 242.



Pos.	Description
1	Power supply
2	IO 242
3	Motor relay
4	Motor protection
5	PTC
M	Motor

Related information

- [5.1 Connecting the power supply](#)
- [7.1 Electrical data](#)

3. Installation requirements

3.1 Location

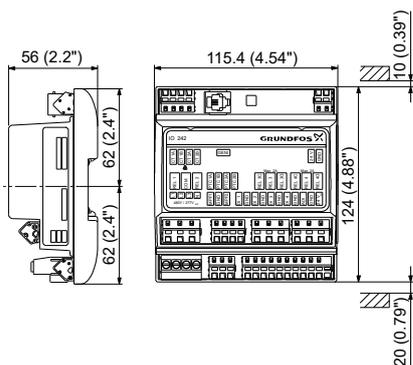
The product is intended for installation in a control panel.

4. Mechanical installation

4.1 Mounting the module

The product is prepared for horizontal mounting on a 35 mm DIN rail (EN 50022). Recommended height: 7.5 mm.

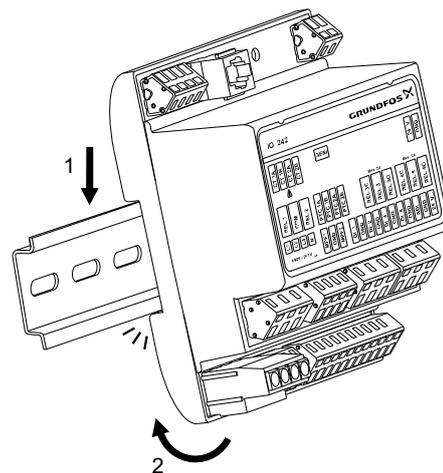
Module dimensions and required minimum clearance above and below the module are shown on the drawing.



TM072260

Dimensions for IO 242

- Fit the module by hooking the top on the DIN rail (1) and pressing the bottom against the rail (2).



- Connect the cables.

4.2 EMC-correct installation

The panel usually contains a control unit, a module, contactors and other power equipment. Other Grundfos modules may also be fitted into the panel.

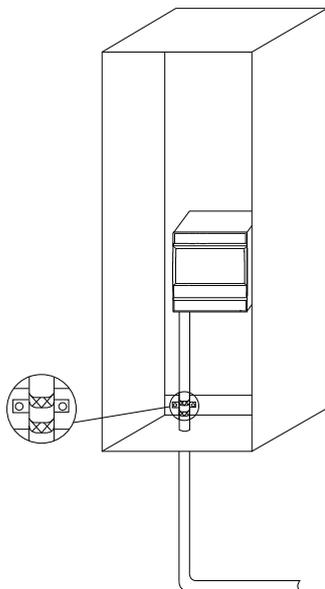
To ensure faultless operation, it is very important to install the electronic modules in an EMC-correct way.

4.2.1 How to install the product in an EMC-correct way

- Use shielded cables for external GENibus. Connect the shield to the cable clamp.

TM075363

TM072261



- Connect the shield to the earth terminal inside the control cabinet.
- Do not twist shield ends, as this will destroy the shield effect at high frequencies.
- Ensure that the DIN rail has a good connection to functional earth.
The module has been designed to ensure a good electrical contact to the DIN rail.

TM075468

5. Electrical connection

5.1 Connecting the power supply

WARNING
Electric shock

Death or serious personal injury



- Switch off the power supply before making any electrical connections.
- Make sure that the power supply cannot be switched on accidentally.



Do not connect the phase inputs to the module if the input is higher than 3 x 480 VAC.

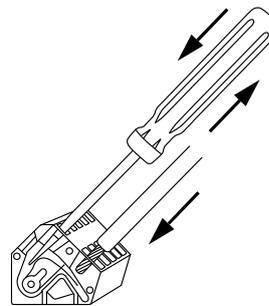


Install the product by following the wiring practice rules of IEC 60204-1 to avoid short circuit of the PTC sensor wiring. This secures the protective function of the PTC sensor.



Changes or modifications not expressly approved by Grundfos may void the user's authority to operate the equipment.

1. Check that the supply voltage corresponds with the needed 24 VDC, and ensure that the polarity is connected correctly according to the label on the product itself.
2. Connect the power cables and pump cables according to the relevant electrical diagram.
3. Tighten the terminal screws to 0.5 Nm.
Remember to remove the jumper from the PTC terminal if you are connecting cables from the temperature sensor to the PTC terminals.



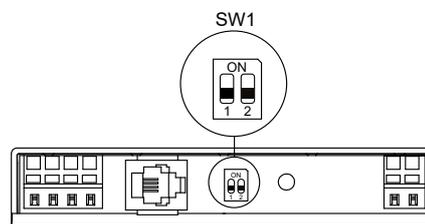
Connecting a wire to a terminal with spring clamps

Related information

- 2.3 Terminals
- 2.6 PTC

5.2 Setting the termination resistor

The GENIbus termination resistor DIP switch SW1 has two bits switches, SW1-1 and SW1-2.
SW1-2 is used for cutting the terminal impedance in and out.



TM070570

TM075594

1. Set the switches according to the table.

Status	SW1-1	SW1-2
Cut-in	-	ON
Cut-out	-	OFF

Maximum cable length

bit/s	Terminated cable		Unterminated cable	
	m [ft]		m [ft]	
1200-9600	1200 [4000]		1200 [4000]	
19200	1200 [4000]		500 [1700]	
38400	1200 [4000]		250 [800]	

6. Servicing the product

The product cannot be serviced.

- Contact Grundfos. If the product is faulty, it must be replaced.

6.1 Inspecting the product functions



You must perform an inspection every fifth year to ensure full functionality of the product.

Recommended inspection procedure:

1. Ensure that the motor is allowed to start, i.e. the motor is cold and there is enough water in the pit.
2. With the PTC sensors connected, start the motor and observe that it runs.
3. Disconnect power from the panel.
4. Disconnect the PTC sensors from IO 242.
5. Reconnect power to the panel.
6. Attempt to start the motor and observe that it does not start, and ensure that an alarm for high motor temperature is present.
7. Disconnect power from the panel, and reconnect the PTC sensors to IO 242.

8. Perform a visual inspection to ensure that the PTC wiring is correct.
9. Reconnect power to the panel.

6.2 Replacing the IO module

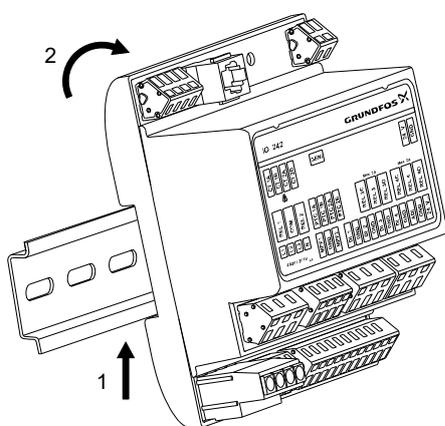
WARNING Electric shock



Death or serious personal injury

- Switch off the power supply before making any electrical connections.
- Make sure that the power supply cannot be switched on accidentally.

1. Switch off the power supply to the product and other components with external supply.
2. Write down the terminal connection of each wire to ensure correct reconnection.
3. Disconnect all wires.
4. Press the module up gently (1).
5. Lift the module off the rail (2).



Removing IO 242

6. Fit the new module.
7. Connect all wires.

7. Technical data

7.1 Electrical data

Supply voltage

24 VDC \pm 10 %.

Power supply is required to be class 2.

Overtoltage category II.

Check that the supply voltage corresponds to the values stated on the nameplate.

The wires must be rated at minimum 70 °C (158 °F), minimum 18 AWG.



Mount only copper wires in the terminals.

Phase monitoring

Measurement category III.

Power

See nameplate.

Maximum current transformer input

Maximum input current in the primary side of the current transformer: 72 A.

Turns ratio: 2000:1.

Maximum output current in the secondary side of the current transformer: 50 mA.

Measurement tolerance: \leq 5%.

The connection between the primary and secondary current transformer must be double insulated.

Maximum power dissipation

Object	Maximum power dissipation
99369842	3.8 W

Input/output connections

Signal excitation (excl. EMC) must be limited to -0.5 to +26 VDC or an effective clamp current less than \pm 15 mADC.

Relay output, REL 1, REL 2

Maximum load

US: Pilot duty D300.

IEC:

115 VAC: Pick-up = 432 VA. Hold-in = 72 VA.

250 VAC: Pick-up = 432 VA. Hold-in = 72 VA.

24 VDC: Pick-up = 56 VA. Hold-in = 12 VA. DC-contactors must be equipped with a transient-voltage-suppression diode of maximum 53 V.

Overtoltage category 3.

The relay contacts need to be protected against currents above 8 A either by use of fuses or class 2 power supply.

Relay output, REL 3, REL 4

250 VAC nominal and 24 VDC nominal mix use.

Nominal current: 10 mA - 2 A AC/DC.

GENibus terminal

-7 to +12 VDC.

Nominal current condition: 4 mADC.

Short-circuit current condition: 328 mA.

Terminal impedance: 120 Ω .

PTC terminals

Trip resistance: greater than 2.2 k Ω \pm 5 %.

Automatic reset resistance: less than 1 k Ω \pm 5 %.

Response time: 1 second.

DI terminal

Digital input mode	Low logic level below 1.8 V.
	High logic level higher than 2.7 V.

ADI terminal

All analogue signals have an out-of-range alarm.

Voltage	0 - 10 V.
	0 - 5 V.
	0 - 3.5 V.
Current	0 - 20 mA.
	4 - 20 mA.
Temperature	Pt100 2-wire.
	Pt1000 2-wire.
Digital input mode	Measurement range: -30 to +180 °C (-22 to +356 °F).
	Low logic level below 1.8 V. High logic level higher than 2.7 V.

Related information

[2.6 PTC](#)

7.2 Mechanical data

Altitude

Maximum 2000 m (6562 ft).

TM072262

7.3 Temperature

Ambient temperature

Min. ambient temperature	-30 °C (-22 °F)
Max. ambient temperature	+70 °C (+158 °F)

Storage temperature

Min. storage temperature	-40 °C (-40 °F)
Max. storage temperature	+70 °C (+158 °F)

7.4 Environmental data

Pollution degree

Pollution degree 2.

Humidity

5-95 %.

Enclosure class

IP20.

8. 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 wheeled 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.

9. Document quality feedback

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