

PM GUARD

Installation and operating instructions



PM GUARD

English (GB)

Installation and operating instructions	4
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English (GB) Installation and operating instructions

Original installation and operating instructions

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1. General information

This appliance shall not be used by children.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be carried out by children.



Appliances can be used by persons with reduced physical, sensory, or mental capabilities, as well as persons with a lack of experience and knowledge. This requires that they are given supervision or instruction concerning the use of the appliance in a safe way and that they understand the hazards involved.



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



GR-108891

PM GUARD is a pressure manager designed to protect the water main network and upstream appliances from water shortages in compliance with DIN 1988-500 (Germany) and WB 4.3 (Netherlands). If the inlet pressure drops below the specified limit, the product deactivates the booster pump. The pressure is monitored by a pressure sensor placed at the inlet connection of the booster pump.

When the mains water pressure returns to normal or exceeds the limit, the booster resumes operation either automatically or through a manual reset.

The reset requirement and pressure values can be configured during the initial setup.

Related information

[9.1 Changing the default settings](#)

2.1 Intended use

Typical applications are water supply systems and rainwater systems in:

- one-family houses
- blocks of flats
- summer houses and cottages
- horticulture and gardening
- agriculture.

2.2 Pumped liquids

The product is designed for pumping clean, thin, fresh water with a pH value between 4 and 9, a maximum chloride content of 300 ppm and free chlorine content below 1 ppm, for example:

- drinking or tap water
- rainwater
- groundwater
- river and lake water
- softened water.

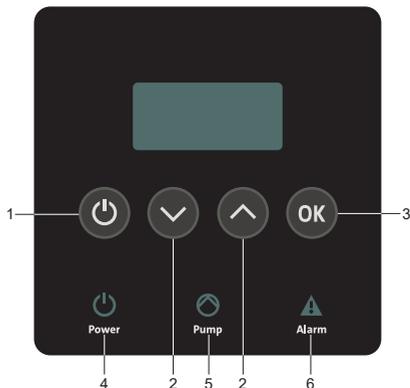


Sand and other impurities in the water can cause wear to the pump and pump blockage.

Install a filter on the inlet side or apply a floating strainer to protect the pump.

2.3 Operating panel

The product offers a user-friendly interface with buttons and indicator lights.



TM068275

Pos.	Description	Function
1	On/Off	The button is used for starting and stopping the product, exiting programming mode or returning to the previous screen.
2	Up and Down	The buttons are used for navigating through the menus and changing operating parameters.
3	OK	The button is used for resetting fault indications and confirming changes to operating parameters.
4	Power	The indicator light remains on in run mode and flashes in standby mode.
5	Pump	The indicator light is on when the pump is in operation.
6	Alarm	The indicator light is on when there is an operating fault in the pump.



The display enters power-saving mode after two minutes of inactivity. Press any button to reactivate the display.

3. Receiving the product

The following is supplied with the product:

- 1 × 1.5 m 230 V cable with Schuko plug.
- 1 × 0.5 m wired cable with a Schuko socket.
- 1 × 1.5 m pressure sensor cable and pressure sensor with a T-piece of 1" for direct connection to the inlet of a booster set, such as SCALA2. The pressure sensor has a detachable cable for easy installation, service and replacement.
- 1 × locking pin for installation with SCALA2.

4. Installation requirements

4.1 Location

Install the product so that inspection, maintenance and service can easily be performed.

Install the product in a well-ventilated location to ensure cooling of its components.

The product can be installed indoors or outdoors, but it must be protected from exposure to direct sunlight, rain and snow.

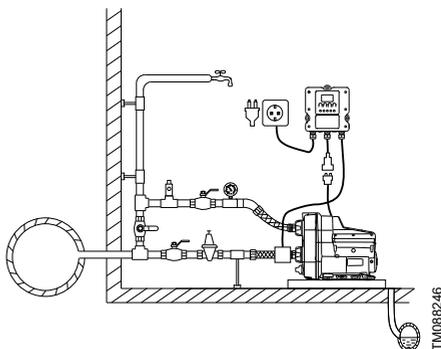
5. Mechanical installation

5.1 Position in the pipe system

Install the product on the inlet side of the pump.

The product can be fitted directly to the system manifold inlet port.

Example



6. Electrical connection

WARNING

Electric shock

Death or serious personal injury



- Switch off the power supply before you start any work on the product. Make sure that the power supply cannot be switched on accidentally.

WARNING

Electric shock

Death or serious personal injury



- Connect the product to protective earth and provide protection against indirect contact in accordance with local regulations.
- Power cables without a plug must be connected to a supply disconnecting device incorporated in the fixed wiring according to the local wiring rules.
- The installation must be fitted with a residual-current device (RCD) with a tripping current less than 30 mA.
- The product must be connected to an external mains switch with a contact gap of at least 3 mm in all poles.



All electrical connections must be carried out by qualified persons in accordance with local regulations.



The product can be powered by a generator or other alternative power supplies, provided that the requirements for the power supply are fulfilled.

1. Connect products delivered with a power plug using the supplied cable and plug.
2. Mount the supplied locking pin if the product is used with SCALA2. See the section on mounting the locking pin.

Related information

[6.1 Mounting the locking pin](#)

6.1 Mounting the locking pin

To mount the locking pin, proceed as follows:

1. Turn off the pump.
2. Close the inlet and outlet valves to the pump to avoid backflow.
3. Loosen and remove the drain plug.
4. Insert the locking pin.



TM1040380

5. Mount and tighten the drain plug.
6. Open the inlet and outlet valves and turn on the pump.
7. If necessary, prime the pump.

Related information

[6. Electrical connection](#)

7. Starting up the product

When the product is switched on the first time, initial programming is required to configure it for the required operation.

At startup, the display indicates the installed software version, date and time. If an error appears, check the sensor cable.

If the product has not been programmed, the indicator lights flash. To use the product, programming is necessary. Program the product by selecting the correct settings according to local regulations.

Subsequent programming can be performed at any time, even directly from the error mode.

1. Press the **Up** and **Down** buttons to scroll through the different country-specific options and regulations as shown below.

Option	Country		
	Europe and Germany	Netherland	Belgium
Display	EU/GER	NL	BE
Standard	EN 806-2/DIN 1988-500	WB4.3	EN 806-2/DIN 1988-500
Default ¹⁾	X		
Cut-out pressure (bar)	1.0	0.5	2.0
Time delay for cut-out pressure (sec)	10	10	10
Cut-in pressure (bar)	1.1	0.6	2.1
Time delay for cut-in pressure (sec)	10	10	10
Automatic reset	X		X
Manual reset		X	

2. Modify the settings as required. If there are local requirements not covered by this list, the settings can be adjusted.

¹⁾ Default refers to this being the default setting. The indicator lights flash continuously until confirmed by pressing the **OK** button. Once confirmed, the indicator lights stop flashing, and the **Power** indicator light is permanently on.

The product is now ready for operation.



The product can start up in either standby mode or run mode, depending on which mode it was in when it was switched off.

Related information

- [9.1 Changing the default settings](#)
- [9.2 Setting the PREX CUT-OFF submenu](#)
- [9.4 Activating the delay function](#)

8. Control functions

8.1 Standby mode

When the product is in standby mode, the **Power** indicator light flashes. In this mode, it is possible to perform programming of the product or a factory reset. The **Up** and **Down** buttons can be used to scroll through the display to show the following information:

- system pressure
- date and time
- state of the pump.

8.2 Run mode

To switch between standby mode and run mode, press and hold the **On/Off** button.

When the product is in run mode, the **Power** indicator light is permanently on. The product activates output number 1 based on the received programming.

You can manually start output 1 by pressing and holding down the **OK** button. As long as the **OK** button is pressed, output 1 remains activated.

9. Setting the product

9.1 Changing the default settings

1. Press and hold the **On/Off** and **Down** buttons to access the programming menu.
2. Use the **Up** and **Down** buttons to scroll between menus.
3. Press the **OK** button to enter the menus and confirm the set values.
4. Press the **On/Off** button to exit the programming screens and return to the selection menus or cancel changes.

Related information

- [2. Product introduction](#)
- [7. Starting up the product](#)

9.2 Setting the PREX CUT-OFF submenu

1. Press the **OK** button to enter the **SET PREX CUT-OFF** submenu.
2. Use the **Up** and **Down** buttons to modify the cut-off pressure in the range from 0.5 to 2 bar.
3. Press the **OK** button to confirm your selection, or press the **On/Off** button to exit without confirming the changes.

Related information

- [7. Starting up the product](#)

9.3 Deactivating the delay function

1. Press the **OK** button to enter the **Set delay off** submenu.
2. Press the **Up** and **Down** buttons to modify the cut-off delay in the range from 0 to 30 seconds.
3. Press the **OK** button to confirm your selection, or the **On/Off** button to exit without confirming your changes.

9.4 Activating the delay function

1. Press the **OK** button to enter the **Set delay off** submenu.
2. Use the **Up** and **Down** buttons to modify the **on delay** setting in the range from 0 to 30 seconds.
3. Press the **OK** button to confirm your selection, or the **On/Off** button to exit without confirming your changes.

Related information

7. Starting up the product

9.5 Setting the SET W_MODE (working mode)

1. Press the **OK** button to enter the **SET W_MODE** submenu.
2. Use the **Up** and **Down** buttons to toggle between automatic and manual working mode.
3. Press the **OK** button to confirm your selection, or the **On/Off** button to exit without confirming your changes.

9.6 Setting the date and time

1. To set the date, press the **OK** button to enter the **PARAMS** submenu.
2. Press the **OK** button to enter the **DATE** settings.
3. Press the **Up** and **Down** buttons to change year, month and day.
4. Press the **OK** button to confirm your selection, or the **On/Off** button to exit without confirming your changes.
5. To set the time, press the **Down** button in the **PARAMS** submenu to find the **TIME** settings.
6. Press the **OK** button to enter the **TIME** settings.
7. Press the **Up** and **Down** buttons to set the hour and the minute.
8. Press the **OK** button to confirm your selection, or the **On/Off** button to exit without confirming your changes.

9.7 Viewing the logs

The product can store up to 8 date or time events, for example, low pressure or a manual restart. The logged events can be viewed in the programming menu in the following way:

1. Press the **Up** and **Down** buttons to search the menu for the **View logs** menu.
2. Press the **OK** button to view the stored logs and the **Up** and **Down** buttons to select the log you want to see.
3. Press the **OK** button to scroll through the logged events.

9.8 Resetting to factory settings

1. To reset to the factory settings, enter the standby mode by pressing and holding the **On/Off** button.
2. Press and hold down all four buttons for at least 10 seconds until the reset window appears.
3. Press the **OK** button within five seconds after the reset window appears to confirm the reset of settings.

The product is factory-preset with the following operating parameters:

- switch-off pressure: 0.5 bar
- delay off: 10 seconds
- delay on: 10 seconds
- country: EU.



The factory reset is only possible in the standby mode.

10. Taking the product out of operation

10.1 Frost protection

If the pressure manager is subjected to frost in periods of inactivity, the pressure manager and the pipes must be drained before the pressure manager is taken out of operation.

1. Shut off the water supply to the system.
2. Drain the isolated system at the lowest located point in the system. Make sure that pumps and pressure manager are drained separately.

11. Fault finding

DANGER

Electric shock

Death or serious personal injury



- Before starting work on the pump or the pressure manager, make sure that the power supply has been switched off, and that it cannot be switched on accidentally.

11.1 The alarm indicator light is permanently on

Cause	Remedy
PM GUARD closes output 1, and the Alarm indicator light is permanently on.	<ul style="list-style-type: none"> • Perform a manual reset by pressing and holding the OK button for two seconds.

12. Technical data

PM GUARD

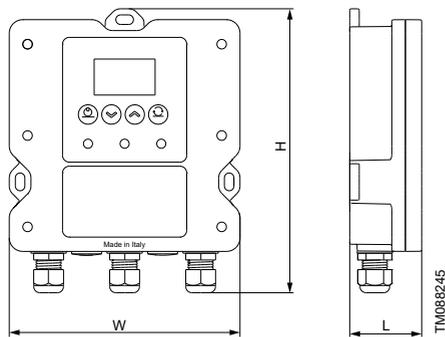
Supply voltage	230 V, 50/60 Hz
Max. operating temperature	60 °C
Max. current	10 A
Weight	0.95 kg
Acceptable voltage fluctuation	+/- 10 %
Enclosure class	IP 65
Power cable	<ul style="list-style-type: none"> • 1.5 m H07RNF cable (Schuko) • 0.5 m H07RNF cable (for SCALA2)

Pressure sensor, T-PS16

T-PS16	
Measurement range	0-16 bar ²⁾
Accuracy	+/- 0.5 %
Output signal	4-20 mA
Pressure connection	G1/4
Enclosure class	IP 65
Electrical connection	M12 waterproof outlet
Material	Stainless steel, AISI 304
Cable length	1.5 m

²⁾ The S.SCALE mode makes it possible to change the sensor settings.

12.1 Dimensions



Product	Dimensions [mm]		
	L	H	W
PM GUARD	53	205	170

13. 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.

14. Document quality feedback

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