



INSTALLATION AND USE

PRO-DG is an inverter-based electronic control device compatible with both surface and submersible pumps, with motor powers of up to 15 HP. It is specifically engineered for professional applications in water supply, distribution, and transportation across commercial, industrial, and agricultural sectors.

Additionally, **PRO-DG** seamlessly integrates with all types of pressurization systems, including existing setups, ensuring enhanced comfort, prolonged system lifespan, and significant energy savings.

PRO-DG protects the pump from:

- ✗ Dry running
- ✗ Overcurrent
- ✗ Overheating
- ✗ Lack of phases in connections (for TT versions)
- ✗ Motor faults

PRODUCT DESCRIPTION

PRO-DG is a frequency inverter to be installed on the wall using the **WALL MOUNT SUPPORT** installation kit, which includes a ventilation system to induce forced cooling of the electronic components.

Connected to an appropriate pressure sensor, **PRO-DG** adjusts the motor rotation speed to be varied according to water demand and maintains a constant pressure in the system for greater comfort and energy savings.

PRO-DG features include:

- RS485 communication facilitates the connection of up to 8 devices and the creation of pumping groups comprising multiple pumps of the same type.
- a display and keypad enable straightforward and intuitive configuration of basic operating parameters through a start-up wizard consisting of a few simple steps.

KEY FEATURES

- ✗ Easy programming and adjustment
- ✗ Constant pressure in the system
- ✗ Energy Conservation
- ✗ Reduced noise operation
- ✗ Compatible with all pumps on the market
- ✗ Communication of up to eight devices
- ✗ Intelligent intervention management in case of anomalies

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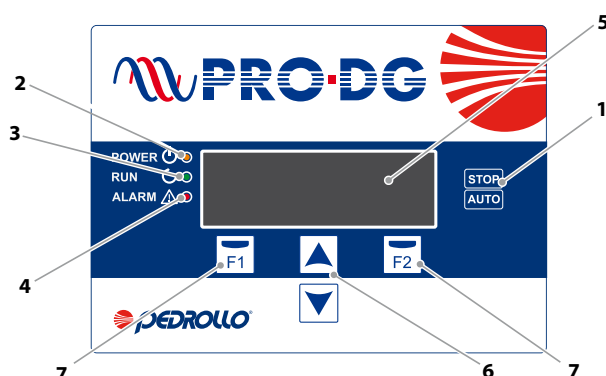
- ✗ An expansion board can be connected to the MT2-11 and TT3-11 models (standard in the TT3-30 model), providing the following capabilities:
 - connect to monitoring systems with ModBus connection;
 - take a differential pressure reading by connecting a second pressure transducer.

TECHNICAL DATA	PRO-DG MT2-11A	PRO-DG TT3-11A	PRO-DG TT3-30A
Power supply voltage	1 ~ 230 V	3 ~ 400 V	3 ~ 400 V
Pump motor voltage	3 ~ 230 V	3 ~ 400 V	3 ~ 400 V
Permissible voltage variation	± 10%	± 10%	± 10%
Supply frequency	50/60Hz	50/60Hz	50/60Hz
Maximum inverter input current	20 A	12 A	31 A
Maximum electric pump motor current	11 A	11 A	30 A
Maximum electric pump motor power	3 HP	5.5 HP	15 HP
Room temperature	-10 °C ÷ 40 °C	-10 °C ÷ 40 °C	-10 °C ÷ 40 °C
Protection rating	IP 55*	IP 55*	IP 55*
No. of 4-20 mA inputs	1	1	2
No. of configurable digital inputs	2	2	4
RS485 Communication	standard	standard	standard
Motor temperature probe input	optional	optional	standard
0-10 V input	optional	optional	standard
Modbus communication	optional	optional	standard

* IP 54 degree of protection when using the "WALL MOUNT SUPPORT" accessory for wall installation

USER INTERFACE

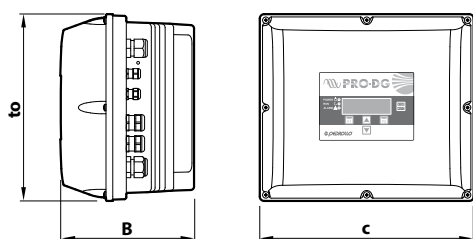
The keypad simplifies the process of accessing and navigating configuration menus, enabling the adjustment, and monitoring of various operational parameters, including system pressure, operating frequency, absorbed current, and alarm messages. LED indicators provide quick insights into the pump's operational status at a glance



KEY

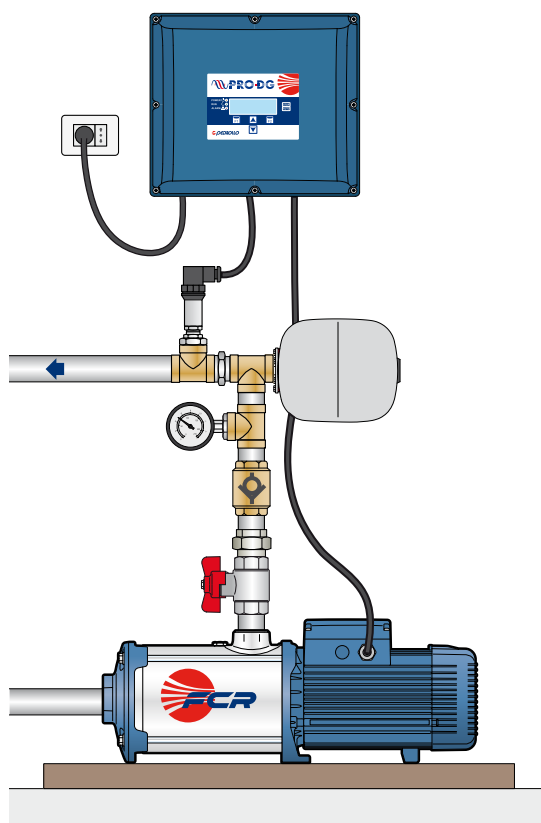
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|-----------------------------|-------------------|
| 1) Manual switch-off button | 5) Display |
| 2) Networking LED | 6) Scroll Arrows |
| 3) Running LEDs | 7) FUNCTION KEYS. |
| 4) Alarm LED | |

DIMENSIONS (mm)



TYPE	DIMENSIONS mm			kg
	a	b	c	
PRO-DG MT 2-11A	183	149	230	2.8
PRO-DG TT 3-11A	183	149	230	2.8
PRO-DG TT 3-30A	276	198	316	6.4

TYPICAL INSTALLATION



PRO-DG is designed for wall-mounting exclusively when fitted with the WALL MOUNT SUPPORT, available for separate purchase