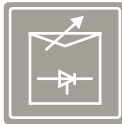


# Speedbox SUB

Wall-mounted pump driver for a single pump with variable speed.

Single-phase pump managed by an inverter. General electrical supply is ~1x230Vac. Ideal device for submersible pumps because of his integrated circuit breaker and an internal housing for the start capacitor required in single-phase pumps.



**SUB 1112 MM**

## OPERATING CHARACTERISTICS

- Frequency inverter for the pump control.
- Thermal-magnetic circuit breaker C 16A.
- Internal housing for the start capacitor until Ø50mm.
- **ART function** (Automatic Reset Test). If the device has been stopped due to the action of the safety system against dry operation, the ART tries to connect the pump, with a programmed periodicity because the water supply could have been restored.
- **Automatic restore system** after an interruption of power supply. This system restores the previous mode keeping the configuration parameters.
- Electronic input for detection of minimum water level in aspiration tank- optional-. This system is independent of the safety system against dry-running operation.
- Volt-free contact for monitoring the alarms displayed in screen originated by irregularities or problems of the system.
- **STC function** (Smart Temperature Control): when temperature of electronic circuit is over 85 °C reduce automatically the frequency of the pump and decrease the generation of heat but keeping the flow of water.
- External pressure transducer 0-10 bar, 0-16 bar or 0-25 bar with 4-20 mA input.
- Inner current sensor with instantaneous digital reading.
- **Register of operational parameters**. Information about: operating hours, counter of starts, counter of connections to the power supply.
- **Register of alarms**. Information about type and number of alarms.
- Open PID in the expert menu.
- Cooling by forced convection.



Low Voltage Directive 2014/35/EC  
Electromagnetic Compatibility 2014/30/EC  
RoHS 2011/65/EC + 2015/863/EC

## TECHNICAL CHARACTERISTICS

	1112 MM
Power supply voltage	~1 x 230 Vac
Frequency	50/60 Hz
Output voltage	~1 x 230 Vac
Max current	12 A
Max peak current	20% 10"
Range of set pressure	0,5 ÷ 25 bar
Protection degree	IP55
Input transducer	4-20 mA
Max environment temperature	50 °C
Net weight (without cables)	4,0 kg
Cooling system	Forced Convection
	i/o: ~1/~1

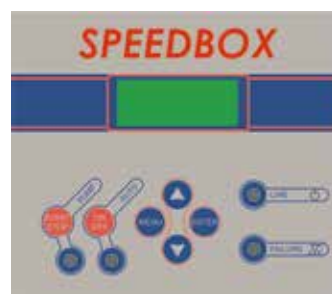
## SAFETY SYSTEMS

- Control and safety system against overload.
- Electronic control and safety system against dry-running operation.
- Control and safety system against wrong supply voltage.
- Control and safety system against short-circuit between output phases

## CONTROL PANEL

Control panel includes:

- LCD screen.
- Warning led-lights.
- Push-buttons, START-STOP, AUTOMATIC and configuration system.



Thermal-magnetic circuit breakers integrated.

## DIMENSIONS

