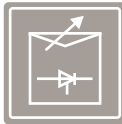


# Speedbox Duo Set

Wall-mounted pump driver for the control of two 3-phase electric pumps. Patented system.

SPEEDBOX DUO SET is a compact automatic control device designed for the automation of pressure groups with 2 pumps. It includes a frequency inverter for the main pump control regulating the speed in order to keep constant the pressure independently of the flow given, the auxiliary pump is managed by mean of power relay. There is alternated operating sequence, these means that the pump managed by the inverter is changed in each operating cycle and it is always the first to start.



Duo Set

## OPERATING CHARACTERISTICS

- Main pump at variable speed, managed by frequency converter (inverter).
- Auxiliary pump at full speed, managed by power relay.
- Alternated operating sequence and cascade.
- **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. Optional accessory.
- **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.

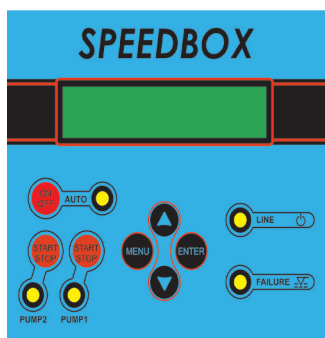


Low Voltage Directive 2014/35/EC  
Electromagnetic Compatibility 2014/30/EC  
RoHS 2011/65/EC + 2015/863/EC

## TECHNICAL CHARACTERISTICS

	Duo Set
Power supply voltage	~3 x 400 Vac
Frequency	50/60 Hz
Max current main pump	9 A (~3 x 400 Vac)
Max current auxiliary pump	9A (~3 x 400 Vac)
Max peak current	20% 10"
Range of set pressure	0,5 ÷ 25 bar
Protection degree	IP65
Input transducer	4-20 mA
Max environment temperature	40 °C
Net weight (without cables)	4,8 kg
Cooling system	Forced Convection
	i/o: ~3/~3

## CONTROL PANEL



Control panel includes LCD screen, warning leds, push-buttons, START-STOP, AUTOMATIC and configuration system.

## 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

## DIMENSIONS

