

CPS

ELECTRONIC FREQUENCY CONVERTER

Easy to install, Low power consumption, Compact size

CPS is an electronic device designed to vary the frequency of a pump. It is incorporated directly on the motor to enable control of the speed to provide the utility with a constant pressure even in the event of changes in water demands. CPS is a compact, essential, reliable solution and it is easy to use; designed also to offer great comfort and benefits in applications in irrigation, greenhouses, light industries, fountains and water games.

The system consists of a pump and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump. When the system pressure falls below the set threshold, the module starts up the pump to restore the set point pressure; the pump rotation speed

varies according to water demand and therefore increases speed on requests for increased quantities, through to the maximum setting. If the water demand is lower, the speed of the pump will be reduced until the minimum speed set has been reached, after which, if the pressure does not continue to drop (that is more water demands) the pump will stop (Stand By) until a new cycle is started.



APPLICATIONS

- Pressurization systems
- Water supply
- Industry
- Construction
- Washes

PROTECTION DEVICES

- Dry running
- Overcurrent
- Overtemperature of electronic devices
- Frost protection via external device

TECHNICAL SPECIFICATIONS

- Supply voltage: inverter 1x230 Vac $\pm 10\%$.
- Inverter output voltage: 3x230 Vac $\pm 10\%$
- Maximum rated power: 2.4 Kw
- Input frequency: 50/60 Hz $\pm 3\%$
- Output maximum rated power: 8 Amp
- Degree of protection IP55 (if installed on motors with a degree of protection IP55 or above)
- Ambient temperature from $+0^{\circ}\text{C}$ to $+40^{\circ}\text{C}$
- Waveform: sinusoidal
- Input filter complying with EMC directive
- Pressure transmitter 0 - 5 Volt - 0 - 10 Bar 0 - 20 Bar depending on the model of pump
- Set-point 2
- Serial interface connectivity RS 485
- Optional contacts 3 (external set-point, alarm, system inhibition)

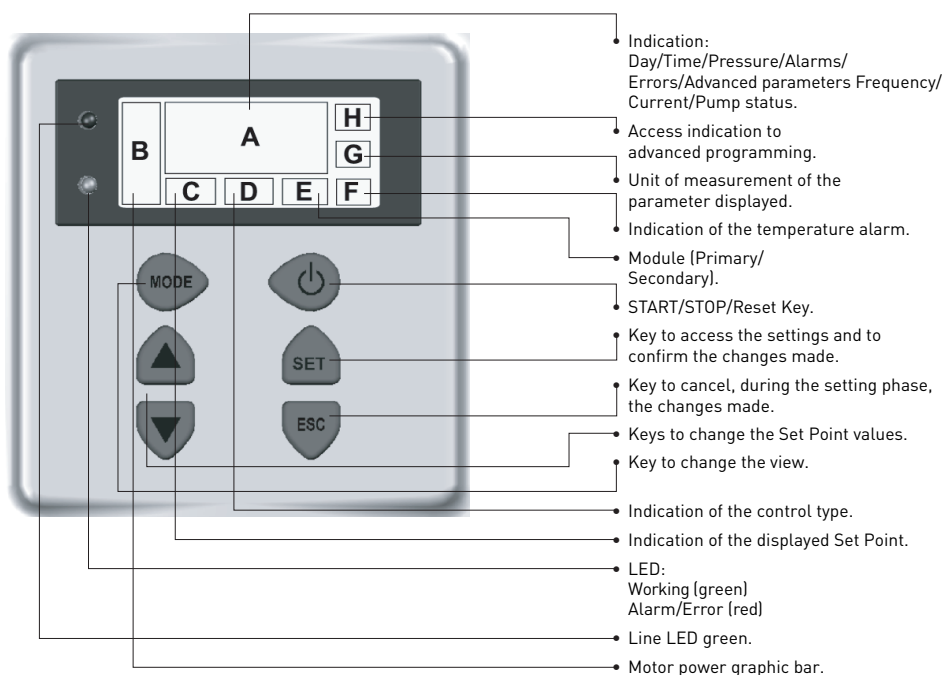
CPS

ELECTRONIC FREQUENCY CONVERTER

VERSIONS AVAILABLE

VERTICAL	HORIZONTAL	SELF PRIMING
CPS10 MULTINOX VE+ 4	CPS10/DHI 2	Multi EVO-E P 3
CPS10 MULTINOX VE+ 6	CPS10/DHI 4	Multi EVO-E P 5
CPS10 MULTINOX VE+ 8	CPS10/DHR 4	CPS10/JET 1000
CPS10 PVM 1	CPS10/DHR 9	
CPS10 PVM 3	CPS10/DHR 9	
CPS10 PVM 5	Multi EVO-E 3	
CPS10 PVM 10	Multi EVO-E 5	
	Multi EVO-E 8	

CONTROL PANEL



- Backlight display (switches off automatically after a reset time and can be turned on again by pressing any key)