

## HYDROCONTROLLER

Hydrocontroller have been specifically developed to manage electro-pumps both single phase (with starter condenser) and three-phase. They guarantee a constant pressure despite capacity “capacity and a good energy saving.”

Special attention has been addressed to the User Interface to allow a quick and easy installation. On the front of the device there are 4 buttons and a display 16 char-2 line for managing functioning and alarm parameters. Through the messages displayed there is no need to consult the manual to locate and interpret the parameters.

The parameters for the operation are the desired pressure and maximum current of the pump. In the event of an anomaly situation HydroController protects the pump as it switches off, but in order to safeguard the water supply it will undertake repeated automatic or programmed reset attempts.

### A wide range of models covering all the needs.

The range of Hydrontrroller is divided into the following models: HCW for in line installation, cooled by water with built-in pressure sensor and flow sensor.

HCA for wall mounting installation, cooled by air, external pressure sensor provided as standard.

Are available the following versions:

#### Standard

This version includes all the features and common protections that continuously regulates the rotation speed of the electro-pump so as to ensure a constant pressure despite varying flow. Each device allows to control a single pump

The device has an input for external float switch, output relay that can be used as a warning signal or to built boosting system with a second pump at a fixed rate.

#### Advanced

More than the basic version, this model adds more features and allows the realization of the groups up to 8 pumps (all pumps must be identical). In the multi-pumps mode, the communication is CanBus protocol and each pump is controlled and regulated by a HydroController.

In this configuration, the system handles all the pumps used in variable speed, increasing / decreasing together their speeds of rotation, in order to keep the pressure constant at the flow rate varies.

The alternation of the pumps is guaranteed and in case of failure of a component of the system automatically reconfigures itself.

The Advanced version also integrates the following features:

- Irrigation: The irrigation control unit can be connected to the HC through the Multipress4, with the possibility of setting up to 4 pressures, for different sectors of irrigation. There are 4 inputs to be supplied at 24V ac / dc
- Outputs relays (MM and MT versions)
- Auxiliary inputs (MM and MT versions)
- One input for floating minimum or a switch into standby mode the pump
- One output relay for alarm or to control a second pump at fixed rate.

Specific uses of the inputs and outputs can be arranged with our technical department.



# Hydro controller



General Technical Features	
Mounting	HCW on pipe HCA wall
Mounting position	HCW any HCA vertical
Display	2 line 16 character LCD
Protection rating	HCW IP65 HCA IP20
T. operating	0 – 40°C
Input/Output	HCW 1 1/4"
output frequency	5–100hz
Pressure Set Point	HCW 0,3–7,5 bar HCA 0,3–20 bar
Electrical Safety	EN60730
Electromagnetic Compatibility	EN61000 (specific norms in CE certificate)
Protections	Dry running, Low/High Power supply Shortcircuit, Overcurrent, OverTemperature, Insufficient Pression, Pressure Sensor fault, Water hammer
Dimensions	HCW 35x19x17cm HCA 35x26x17cm
Weight	HCW 2,5kg (4kg mod TT) HCA 5,6Kg (8,7kg mod TT15)

**HCW MM - HCA MM - SINGLE PHASE POWER SUPPLY FOR SINGLE PHASE PUMPS**

**HCW MT - HCA MT - SINGLE PHASE POWER SUPPLY FOR THREE PHASE PUMPS** 59

**HCW TT - HCA TT - THREE PHASE POWER SUPPLY FOR THREE PHASE PUMPS**

### EUROPEAN VERSIONS 50Hz

Model	Line voltage	Pump Voltage	Phase Current	Max Pump Power	In Floating	Input	In Irrigation	Out Alarm	Output	MultiPump
HC-MM08-ST	1 x 230Vac	1 x 230Vac	08A	1,1kw (1,5Hp)	1			1		
HC-MM08-ADV	1 x 230Vac	1 x 230Vac	08A	1,1kw (1,5Hp)	1	2	4	1	2	x
HC-MM12-ST	1 x 230Vac	1 x 230Vac	12A	1,6kw (2,2 Hp)	1			1		
HC-MM12-ADV	1 x 230Vac	1 x 230Vac	12A	1,6kw (2,2 Hp)	1	2	4	1	2	x
HC-MT08-ST	1 x 230Vac	3 x 230Vac	08A	1,5kw (2Hp)	1			1		
HC-MT10-ADV	1 x 230Vac	3 x 230Vac	10A	2,2kw (3Hp)	1	2	4	1	2	x
HC-TT06-ST	3 x 400Vac	3 x 400Vac	06A	2,2kw (3Hp)	1			1		
HC-TT06-ADV	3 x 400Vac	3 x 400Vac	06A	2,2kw (3Hp)	1		4	1		x
HC-TT11-ST	3 x 400Vac	3 x 400Vac	11A	4kw (5,5Hp)	1			1		
HC-TT11-ADV	3 x 400Vac	3 x 400Vac	11A	4kw (5,5Hp)	1		4	1		x
HC-TT15-ST	3 x 400Vac	3 x 400Vac	15A	5,5kw (7,5Hp)	1			1		
HC-TT15-ADV	3 x 400Vac	3 x 400Vac	15A	5,5kw (7,5Hp)	1		4	1		x

### AMERICAN VERSIONS 60Hz

Model	Line voltage	Pump Voltage	Phase Current	Max Pump Power	In Floating	Input	In Irrigation	Out Alarm	Output	MultiPump
HC-MM08-ST	1 x 117Vac	1 x 117Vac	08A	0,55kw (0,75 Hp)	1			1		
HC-MM08-ADV	1 x 117Vac	1 x 117Vac	08A	0,55kw (0,75 Hp)	1	2	4	1	2	x
HC-MM12-ST	1 x 117Vac	1 x 117Vac	12A	0,8kw (1,1 Hp)	1			1		
HC-MM12-ADV	1 x 117Vac	1 x 117Vac	12A	0,8kw (1,1 Hp)	1	2	4	1	2	x
HC-TT06-ST	3 x 230Vac	3 x 230Vac	06A	1,1kw (1,5Hp)	1			1		
HC-TT06-ADV	3 x 230Vac	3 x 230Vac	06A	1,1kw (1,5Hp)	1		4	1		x
HC-TT11-ST	3 x 230Vac	3 x 230Vac	11A	2,2kw (3Hp)	1			1		
HC-TT11-ADV	3 x 230Vac	3 x 230Vac	11A	2,2kw (3Hp)	1		4	1		x
HC-TT15-ST	3 x 230Vac	3 x 230Vac	15A	3,7kw (5Hp)	1			1		
HC-TT15-ADV	3 x 230Vac	3 x 230Vac	15A	3,7kw (5Hp)	1		4	1		x