



DAVIES PUMPS
SINCE 1931

Power to the Pipeline

HYDROGENIE 4.1

PUMP CONTROLLERS

The **HydroGenie 4.1** is an electronic pump controller with pressure and flow sensors to manage a single-phase pump up to 2.2Kw (3.0Hp), protect from run dry failure and overload. There are two operating modes to allow the best control method:

- Standard mode is pressure and flow dependant with adjustable start pressure and pump off with no flow.
- Pressure mode is dependant on start and stop pressure being adjusted and set.

The overload can be adjusted and set to protect the pump motor. It can also have a minimum pressure set to help protect from dry running or hose burst. The LCD screen shows the pump operating pressure in either bar or PSI or the instantaneous current consumption of the pump. Alarm LED shows if pump is in failure and flow LED shows flow switch is active. The controller has ART (Auto Reset Test) function which will attempt to restore operation a set number of times (1-48) over 24H and for a variable time period (10-40s) in case of a run dry failure or 4 attempts in case of overload. The ART for run dry can be turned off.



HYDROGENIE 4.1 PUMP CONTROLLER

| Part No. | Voltage | Frequency | Max Current | Power | Max Pressure | Start Pressure | Protection | Max Temp | Net Weight | Max Flow |
|-----------|-------------------------|-----------|-------------|-------|--------------|----------------|------------|----------|------------|----------|
| 228-HG4.1 | 1~110-230 V (multiVolt) | 50/60 Hz | 16 A | 2.2kW | 8 bar | 0.5 - 7 bar | IP65 | 50°C | 1.3 kg | 10000l/h |

OPERATING CHARACTERISTICS

- Pump managed by power relay.
- Accumulation membrane and Integrated non-return valve.
- 2 operating modes: pressure-dependent or on/off mode.
- 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.
- Dry-running protection, overload and minimal pressure.
- Digital pressure gauge (bar and psi).
- Inner pressure transmitter
- Inner flow sensor.
- Inner current sensor with instantaneous digital reading.
- Stand-by mode.
- Control panel includes 3 digits display.
- Inlet and outlet G 1 1/4" ..

SAFETY SYSTEMS

- Electronic control and safety system against dry-running operation.
- Over-current protection adaptable to the pump.
- Minimal pressure alarm.



DIMENSIONS AND INSTALLATION

