

MPV2100 Controller

Advanced control for multiple pump systems



- Constant pressure with variable speed control for up to 4 pumps
- Large LCD screen and user-friendly menu structure
- Complete system protection and data logging
- Remote monitoring and data acquisition

Applications

- Agriculture & viticulture
- Irrigation & turf watering
- Industrial & commercial water supply
- Building services

The MPV2100 controller is a cost-effective, efficient solution for maintaining constant operating pressure with variable speed control in multiple pump systems.

Combining advanced control technology and an easy-to-use graphic display interface, it is the ideal solution for improving the performance, efficiency and protection of your pump system.

Enhanced system performance

The MPV2100 controller operates with a range of VSD's – including Danfoss, ABB and Vacon – to maximise the hydraulic performance of your pump system. It controls the number of pumps in operation along with individual pump speed, thereby adjusting the performance of the system in response to changing demand.

Key benefits include:

- real English display of system status, alarms and operating conditions
- automatic rotation of lead pump based on hours run
- automatic skip of failed or isolated pump
- programmable multiple set points (based on time)
- control of jockey pump with independent pressure settings
- automatic restart after power failure
- adjustable friction loss compensation
- automatic testing of no-flow condition
- data logging of system status and operation for enhanced maintenance and control
- customisable output relays for external communications including BMS systems.

Pump and system protection

The MPV2100 offers both system and individual pump protection to maintain system integrity and maximise the lifespan of your investment.

Specific features include:

- password-protected access
- high and low pressure protection
- automatic flow test to ensure positive system shut down on no-flow condition
- programmable minimum pump speed allowing for better system control and faster reaction to changing demand
- thermal overload protection for individual pumps
- programmable anti-seize protection.



MPV2100 controller custom-mounted
in a stainless steel switchboard

Remote monitoring and control

The MPV2100 controller can be remotely accessed and controlled via modem or internet connection (optional). This ensures uninterrupted access to system information including:

- system status and performance
- individual pump status and operating conditions
- alarms and warning logs
- settings and control mode.

Customisable options

The MVP2100 Controller offers a range of customisable options to suit specific site requirements or custom applications.

Technical Data

Graphic display	320x240 dpi LCD display
Size	Standard model from 600x600x300mm Customised switchboards sized to suit
System power supply options	Single phase 1x480V Three phase 3x380-440V or 3x230-240V Other voltages available on request
Control power supply	240V and 24VDC – from VFD
Operating temperature	0 - 40°C, non-condensing Higher temperatures available on request
Frequency	50 or 60Hz
EMC/EMI filtering	Designed to minimise radiated and conducted emissions
Pressure transducer	Traditional 10 to 20 Bar stainless steel pressure transducer Additional ranges available on request
Enclosure protection	1P54+ powder coated metal switchboard model Greater protection and/or stainless steel options on request
Remote control (optional)	RS232C/RS485, serial modem or internet access



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