

Pump controller for water technology

The pump - controller MAR Version 2025:

is built in a sheet steel housing with a freely configurable pump controller with a keyboard and a switchable backlit plain text display.

Operating modes: pressure controller, level controller, temperature controller, vacuum controller, quantity controller, flow controller,

Power range: 1-3 Pumps 0,75kW - 5,5kW / 3PH 400V 50/60Hz +/- 15%
Power range: 1-3 Pumps 7,5kW - 15kW / 3PH 400V 50/60Hz +/- 15%

Technical data:

Metal control cabinet IP54,
main switch,
fuses per pump,

**Frequency inverter with 50% / 1 min reserve,
with line filter C2/3,**

Operating selector switch for each pump,
2x dig. inputs,
1x relay output, malfunction
1x relay output per frequency converter
2x sensor input 4-20mA (MAR+INV1),
1x SD card
1x passive ventilation as standard < 6kW
1x active ventilation as standard > 6kW
1x RS485 interface Modbus RTU Master
1x interface UART Adapter port

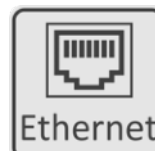
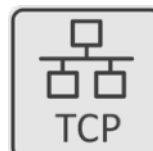
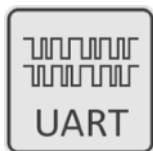
Option:

Plug-in board: RS485 Modbus RTU (GSM),
Plug-in board: Modbus TCP/IP,
GSM RS485 Modem,

no transducer, no modem, no accessories



Optionen:



**General water supply applications such as:
Pressure increase, leveling, process water supply, are to be realized.**

A system monitoring is optionally possible.

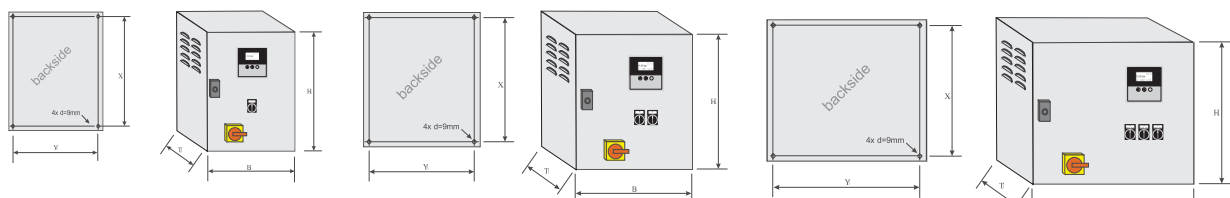
The system is factory parameterized.

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All features of the MAR regulation:

- Freely parametrizable pump control with keyboard and colored plain text display
- Display for all operating messages, target values and commissioning values
- 2x digital inputs, 1x relay interference, 1x relay output per frequency converter
- Speed control system for 1 to 3 pump systems all pumps regulated
- Password protection, connection for two sensors 4..20mA
- Adjustable PI regulator for fast pressure control
- Adjustable zero-quantity switch-off for switching off the pump to "standby"
- Safe start function for safe filling of the pipelines
- Manual operation with adjustable fixed speed for emergency supply
- Pump guard for operation with underwater motors
- Adjustable runtime monitoring, Adjustable leakage monitoring
- Adjustable electronic dry running protection
- Adjustable Electronic Pressure Monitoring
- Transducer monitoring with redundancy function and / or switching
- Multi-operation with base load, peak load, reserve function
- Automatic interference switching and pump change function
- Adjustable test run, Adjustable flushing mode, Adjustable motor characteristics
- Real-time clock with error memory with time stamp
- Operating hour counter, daily hour meter, energy metro
- SD card for data logger, event storage
- Interface UART Adaptor for plug-in board
- Lockable front switch, fuses per frequency converter
- Option: Connection for external 24VDC supply
- Option: Plug-in board RS485 Modbus RTU (GSM)
- Option: Modbus TCP/IP connector
- Option: RS485 GSM Modem

Dimensions for the MAR regulation on request:



Presented by:



MAR