

## PUMP CONTROL CPS-M

...modular design



pump control CPS-M

**Highly complex and tailored to individual requirements pump control for demanding applications.**

Modular pump control **for one or two pumps up to 75 kW per pump.**

This pump control can be ideally used for pumping systems in the field of domestic waste and sewage water as well as rain water. For use in municipal, industrial, commercial and domestic applications.

**With high quality basic equipment in standard execution** (graphical LCD-display, Manual-O-Automatic function, manual motor starter,...).

### Advantages

- **variable enclosure concepts**
- **high quality basic equipment** in standard execution (graphical LCD-display and plain text display, „manual-OFF-Automatic“ function -membrane key-, manual motor starter, float switch operation, connection systems different level monitoring,..)
- customized solutions - **if desired, completely assembled and wired in an outer enclosure**
- alternatively with or without **main circuit -breaker**
- suitable for the **operation of pumps and sensors in explosive areas (ATEX) \*\***
- **Telecontrol system** with GSM-modem
- **different pump start-up phases** - direct starting, star/delta starting, soft starting, frequency drive

## STANDARD VERSION

### Functions, Operation & Displays

- ATEX-Mode
- Display 2x16 illuminated symbols
- operating instructions / wiring diagram
- display of operating hours and switching cycles
- phase sequence monitoring and phase drop monitoring
- error list
- Manual-OFF-Automatic - mode selection
- plain text display
- LED display for operational readiness
- LED display for operating states (pumps)
- operational fault LED display / buzzer
- prompt menu (3-5 pushbuttons)
- motor current indication - LCD display
- manual motor starter
- key lock
- date / time adjustable
- detailed menu with all relevant setting options
- maintenance display

### Available Connections

- 1 - 2 pumps
- per pump 1 thermal contact (zero voltage safe) and 1 thermal contact (automatically resetting)
- 2 x 230V / 2A output for possible small compressor
- 3 x potential-free alarm relays (3x change-over contact)
- connecting terminal (12 VDC)
- terminal blocks for network measurement
- screw terminals for level measurement
- terminal blocks for pump connection

### Level Monitoring

- 1, 2 or 3 float switches
- impact pressure sensor (measuring 0-2mWs)
- 4-20 mA analog input e.g. for level sensor
- 4-20 mA analog output (optionally)
- separate high water float switch

\* Photo shows optional accessories. Please refer to the back!

\*\* The rules of the DIN EN 60079 to be observed! The pump control is only provided for the „safe area“.

### PUMP CONTROL CPS-M

- Technical Details -

#### Adjustable Control Parameter:

- alarm relay, programmable function
- ATEX-Mode
- date / time
- phase sequence monitoring and phase drop monitoring
- turn-on delay
- on / off switch levels
- flood level / alarm level
- integrated buzzer (can be switched on and off)
- integrated time switch for compressor function
- short pump start against locking
- load changeover time for pumps
- max. pump operating time
- minimum and maximum current monitoring
- password protection
- pump follow-up time
- compressor or agitator activation
- installed languages: DE, EN, FR, NL, IT, PL  
(other languages on request)
- power monitoring (electrical)
- power monitoring (thermal-magnetic)
- delay time / high water alarm
- delay time between pump „1“ and pump „2“
- maintenance display
- periodic emptying

#### Options:

- alarm system 12V/1,2 Ah leadgel-battery (power failure alarm)
- operating voltage 230V (2,2kW/9A)
- installation in exterior columns  
+ panel heater, + flashing light, + small compressor
- MCB optional
- „manual-OFF-Automatic“ (rotary or toggle switch)
- LED display for operating states (pumps)
- PTC Relais, RCD, Line protection, overvoltage protection, ... integrable
- cylinder lock for the cover
- zener barrier (1Zenerbarriere (1 to 4 pieces integrable)

#### Technical Details:

- |                            |  |                      |   |
|----------------------------|--|----------------------|---|
| ▪ housing:                 | ABS- plastic housing                         | ▪ operating voltage: | 400V / 230 AC 50/60 Hz<br>(special voltages possible) |
| ▪ dimensions:              | depending on the equipment                   | ▪ temperature range: | 0 ... +50°C   |
| ▪ cable glands:            | 2x M25 x 1,5<br>5x M16 x 1,5<br>2x M12 x 1,5 |                      |   |
| ▪ protection class:        | IP54   |                      |   |
| ▪ max. protection on site: | depending on the equipment                   |                      |   |
| ▪ max. power of the pump:  | depending on the equipment                   |                      |   |
| ▪ number of pumps:         | 1 or 2 pumps                                 |                      |   |
| ▪ control voltage:         | 230V AC / 12 V DC                            |                      |   |

#### Contact:

**Please contact us,**

if you have any questions about this product or any other of our products.

**We are here to assist.**



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