

PUMP CONTROL CPS-B

..high quality & compact pump control



pump control CPS-B2 and CPS-B1

Compact pump controls CPS-B1 and -B2 are designed for the **automatic control of one or two pumps (max. 4 kW/9A) with direct start.**

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 applicatons.

With high quality basic equipment in standard version (main circuit breaker, manual motor starter, plain text display - LCD- ...)

Advantages

- **compact housing** (w265xh270xd145mm) - especially suitable for the installation in exterior columns
- **high quality basic equipment** in standard execution (main circuit breaker, manual motor starter, Manual-0-Auto sensor buttons, LCD displays for operating conditions of the pumps, connection of different level measuring methods)
- suitable for the operation of **pumps (EEx d) in explosive areas (ATEX)** as the pump control always comprises the necessary manual motor starter in accordance with DIN EN 60079-14, DIN VDE 0660 and EN 60947 **
- for the use of 230V or 400 AC pumps
- external serial PC-interface
- pressure sensor (optionally)
- free installation areas e.g. for two Zener barriers (Operation of measuring and control technology as safe electric circuits)**

STANDARD VERSION

Functions, Operation & Displays

- ATEX-mode
- display of operating hours and switching cycles
- error list (20 fields saved retentively)
- manual-OFF-Automatic - mode selection
- main circuit-breaker
- internal buzzer
- transparent cover locks in the open status
- plain text display (LCD-Display with 2x16 symbols, illuminated)
- LED display for operational readiness
- LED display for operating states (pumps)
- operational fault LED display / buzzer
- prompt menu with sensor module
- motor current indication - LCD display
- from outside operable manual motor starter
- key lock
- date / time adjustable
- detailed menu with all relevant setting options
- maintenance display

Available Connections

- 1 pump (CPS-B1) or 2 pumps (CPS-B2)
- thermal contact (zero voltage safe)
- 2 x 230V / 2A output for possibly small compressor
- 3 x potential-free alarm relays (3x change-over contact)
- float switch terminal for emergency operation function
- RS232 - connection for software update
- terminal blocks for network supply
- plug-in terminals for level measurement
- pump connection - on the contactor

Level Monitoring

- 1, 2 (CPS-B1) or 3 float switches (CPS-B2)
- impact pressure sensor (measuring 0-2mWs) can be retrofitted
- 4-20 mA analog input e.g. for level sensor
- 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-B

- Technical Details -

Adjustable Control Parameter:

- alarm relay, programmable function
- alternating pump operation
- ATEX-Mode
- date / time
- on / off switch levels of the pumps
- high water level / alarm level
- minimum pressure monitoring
- password protection
- pump follow-up time
- current measurement per pump (electronic)
- compressor or agitator activation
- installed languages: DE, EN, FR, NL, IT (other languages on request)
- power monitoring, electronic (min/max)
- power monitoring (thermal-magnetic)
- delay time / high water alarm
- delay time between pump 1 and pump 2 (CPS-B2)
- maintenance display
- periodic emptying

Options:

- 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
- graphic LCD display
- pressure sensor (measuring range 0-2 meters mWs)
- sep. housing for PTC relais, RCD, etc.
- cylinder lock for the cover
- zener barrier (1 or 2 pieces integrable)
- additional cable glands (4x M16)

Technical Details:

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|-----------------------------|---|---|
| ▪ housing : | ABS-plastic housing | ▪ operating voltage / supply line: 400V / 230 AC 50/60 Hz |
| ▪ dimensions: | w265 x h270 x d145 mm,
incl. accessories | ▪ temperature range: 0 ... +50°C |
| ▪ cable glands: | 3x M25 x1,5
5x M16 x1,5
1x M12 x1,5 | ▪ storage temperature: -20 ... +70°C |
| ▪ protection class: | IP54 | |
| ▪ max. protection on site : | 25A | |
| ▪ max. power of the pump: | 4 kW | |
| ▪ number of pumps: | 1 pump (-B1); 2 pumps (-B2) | |
| ▪ control voltage: | 230V AC / 24 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.