

## Pump control CPS-B

... high quality & compact pump control



pump control CPS-B1 and CPS B2 - new generation

Compact pump controls CPS-B1 and -B2 of the latest generation for more system transparency. They are designed for the automatic control of one or two pumps (max. 4 kW/9A)

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, new QVGA color touch screen...).

### 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-Automatic function, **new QVGA color touch screen**, **USB interface**, connection systems different level monitoring...)
- free-selectable level monitoring
- all control functions are performed via the QVGA touch screen
- suitable for the operation of pumps and sensors in explosive areas (ATEX) \*\*
- for the use of 230V or 400V AC pumps
- telecontrol system with Ethernet-Modul or GSM-Modem (optional)
- pressure sensor (measuring range 0-2 meters w.c.) can be added



## 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
- integrated buzzer (can be switched on and off)
- integrated time switch for compressor function
- short pump start against locking
- load changeover time for pumps (CPS-B2)
- max. pump operating time
- minimum pressure monitoring
- password protection
- pump follow-up time
- compressor or agitator activation
- installed languages: DE, EN, FR, NL, IT (other languages on request)
- power monitoring (electrical)
- power monitoring (thermal-magnetic)
- delay time / high water alarm
- delay time between pump 1 and pump 2 (CPS-B2)
- maintenance display
- periodic emptying

### Options

- battery 6AA NiMH 1,2V (power failure alarm)
- execution - voltage 230V (2,2kW/9A)
- installation in exterior columns  
+ panel heater, + flashing light, + small compressor
- Ethernet module or GSM Modem retrofittable in the control unit
- pressure sensor (measuring range 0-2 meters w.c.)
- sep. housing for PTC relais, RCD, etc.
- cylinder lock for the cover
- zener barrier (1 or 2 pieces integrable)

### Operation and Display

- ATEX-mode
- menu navigation via backlit QVGA color touch screen:
- graphical display and plain text display
- graphical display - for level states
- graphical display - for operating states (pumps)
- graphical display - operational fault
- phase sequence monitoring and phase drop monitoring
- error list (20 fields saved retentively)
- Manual-OFF-Automatic - mode selection
- main circuit breaker
- internal buzzer
- transparent cover (locks in the open status)
- motor current indication
- manual motor starter (operable from outside)
- date / time adjustable
- maintenance display

### Available connections

- 1 pump (CPS-B1) or 2 pumps (CPS-B2)
- thermal contact (zero voltage safe)  
ATEX, standard, ON / OFF function can be selected
- 2 x 230V / 2A output for possible small compressor
- 3 x potential-free alarm relays  
(3x change-over contact)
- float switch terminal for emergency operation function
- USB interface for software update
- connecting terminal
- 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

Technical Details CPS-B

Housing	ABS-plastic housing
Dimensions	w 265 x h 270 x d 145 mm, incl. accessories
Cable glands	3x M25 x 1,5 5x M16 x 1,5 1x M12 x 1,5
Protection class	IP54
Max. protection on site	25A
Max. power of the pump	4kW
Number of pumps	1 pump (-B1); 2 pumps (-B2)
Control voltage	230V AC / 24 V DC

Technical Details CPS-B

operating voltage	400V / 230 AC 50/60 Hz
temperature range	0...+50°C
potential-free alarm relay	5A (2A inductive)
storage temperature	-20 .... + 70°C

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

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

\*\*\*Technical changes and mistakes reserve.