

## PCM WITH HOMApp - INNOVATIVE PUMP CONTROL

### Description

The new PCM pump control sets standards in the operation and monitoring of wastewater disposal units and pump stations.

The control consistently implements the requirements for the particular application of a control in a sewage pumping station. For a cost-optimised design, a basic configuration was used in the control, which fully meets the need for a reliable system.

In developing the new PCM pump control, value was placed on using innovative technology to ensure maximum comfort when handling the pump system. All the basic control and monitoring functions are available using the control.

Available for iOS and Android operating systems. The Smartphone APP HOMApp facilitates the configuration, commissioning, diagnostics and troubleshooting of the system with its extensive functionality.

The HOMA app provides intuitive and convenient operation via a graphical user interface.

The controller communicates with HOMApp via Bluetooth. This wireless connection ensures communication even in poorly accessible pump works without a GSM or GPRS network.

The data stored on the smartphone from the controller can then be connected to the available network later.

- A controller with many applications
- Also suitable for controlling ex-pumps
- Mountable on cost-saving narrow outdoor columns (projects for pressure drainage)
- Low type diversity, each control unit can be adjusted to all common requirements and level measurements by means of the configuration and parameterisation
- Easy commissioning through the use of default settings
- Choice of three different level detection systems
- Integrated, tested parameter data can be downloaded for free over the HOMA server
- Project-specific parameter data can be stored centrally on the HOMA server.
- Comprehensive design of the HOMApp. Therefore, fast training



- for each user
- Special menu for commissioning: all relevant settings are clearly arranged under this menu item
- Online system status (even without a network connection)
- Password protection of the system parameters
- Maintenance intervals can be viewed
- System status can be read
- Sending of the system status by email
- Pre-equipped for connection to Smarthome systemse

### Technical Data PCM

#### Dimensions

271\*170\*120mm (W\*H\*D)

High protection: IP66/67

Alternating or rotary current:

220/240V 1Ph, 380-440V50/60Hz, 3Ph,N,PE

Pumps to 5,5kW direct starting

Rated current of the pumps: 2,3 – 11,5A

Ambient temperature: -5°C – 40°C

Required fuse:

maximum 25A slow-blow

Level recording: float switch, dynamic

pressure of 4-20mA sensor

- Rotary field detection
- Flow detection and monitoring single phase for each pump
- Possibility to connect thermal switch (Klixon),
- Off-grid alarm warning as standard
- 3 fault reporting relays
- Bluetooth module

Options: main switch, capacitors for alternating current, ex barriers

### Setting via Free HOMApp

- Basic circuit for sewage pump systems (toggling after each start, acceptance in the event of fault, peak load etc. selectable...)
- Overtravel time selectable
- Forced start selectable
- Start-up delay
- Storing, loading datasets
- Various menu languages
- Technical information such as connection diagrams, operating manual in the APP
- Maintenance intervals
- Operating hours
- Number of starts
- HOMApp available for iOS and Android

# PCM WITH HOMApp - INNOVATIVE PUMP CONTROL

## Selection Criteria

- 1: Suitable for collection sumps      3: Power monitoring pump (A)      6: Cable + safety plug      9: EX Barrier for 4-20mA  
 2: Suitable for lifting stations      4: Single (1) or three-phase current (3)      7: Cable + CEE16 plug      10: EX Barrier for float switch  
 5: Main switch      8: Capacitor (µF)

Description	1	2	3	4	5	6	7	8	9	10	Data Set / Factory Setting	Type	Part.-No.
<b>1 Pump</b>													
Control box with main switch	X	-	2-11,5	3	X	-	-	-	-	-	1P-SD-EX	PCM15-D+HS	1990111
Control box with main switch and EX barrier	X	-	2-11,5	3	X	-	-	-	X	-	1P-4-EX	PCM15-D+HS+1EX	1990120
Control box with main switch, EX barrier	X	-	2-11,5	3	X	-	-	-	X	X	1P-4-EX	PCM15-D+HS+2EX	1990112
Control box with main switch	X	-	2-11,5	1	X	-	-	-	-	-	1P-SD-EX	PCM15-W+HS	1990117
Control box with main switch and capacitor	X	-	2-11,5	1	X	-	-	20	-	-	1P-SD-EX	PCM15-W+HS+K20	1990128
Control box with main switch and capacitor	X	-	2-11,5	1	X	-	-	25	-	-	1P-SD-EX	PCM15-W+HS+K25	1990129
Control box with main switch and capacitor	X	-	2-11,5	1	X	-	-	30	-	-	1P-SD-EX	PCM15-W+HS+K30	1990122
Control box with main switch and capacitor	X	-	2-11,5	1	X	-	-	40	-	-	1P-SD-EX	PCM15-W+HS+K40	1990123
Control box with cable and plug	-	X	2-11,5	3	-	-	X	-	-	-	S-STAR1-BY	PCM15H-D	1990115
Control box with cable and plug	-	X	2-11,5	1	-	X	-	-	-	-	S-STAR1-BY	PCM15H-W	1990116
Control box with cable, plug and capacitor	-	X	2-11,5	1	-	X	-	30	-	-	S-STAR1-BY	PCM15H-W+K30	1990124
Control box with cable, plug and capacitor	-	X	2-11,5	1	-	X	-	40	-	-	S-STAR1-BY	PCM15H-W+K40	1990125
Capacitorbox for 1 pump 30/60µF and start relay												KON-Box15-30/60	1974403
Capacitorbox for 1 pump 50/100µF and start relay												KON-Box15-50/100	1974404
<b>2 Pumpn</b>													
Control box with main switch	X	-	2-11,5	3	X	-	-	-	-	-	2P-SD-EX	PCM25-D+HS	1990311
Control box with main switch and EX barrier	X	-	2-11,5	3	X	-	-	-	X	-	2P-4-EX	PCM25-D+HS+1EX	1990318
Control box with main switch, EX barrier	X	-	2-11,5	3	X	-	-	-	X	X	2P-4-EX	PCM25-D+HS+2EX	1990312
Control box with main switch	X	-	2-11,5	1	X	-	-	-	-	-	2P-SD-EX	PCM25-W+HS	1990317
Control box with main switch and capacitor	X	-	2-11,5	1	X	-	-	20	-	-	2P-SD-EX	PCM25-W+HS+K20	1990328
Control box with main switch and capacitor	X	-	2-11,5	1	X	-	-	25	-	-	2P-SD-EX	PCM25-W+HS+K25	1990330
Control box with main switch and capacitor	X	-	2-11,5	1	X	-	-	30	-	-	2P-SD-EX	PCM25-W+HS+K30	1990320
Control box with main switch and capacitor	X	-	2-11,5	1	X	-	-	40	-	-	2P-SD-EX	PCM25-W+HS+K40	1990321
Control box with cable and plug	-	X	2-11,5	3	-	-	X	-	-	-	S-STAR2-MA	PCM25H-D	1990315
Control box with cable and plug	-	X	2-11,5	1	-	X	-	-	-	-	S-STAR2-MA	PCM25H-W	1990316
Control box with cable, plug and capacitor	-	X	2-11,5	1	-	X	-	30	-	-	S-STAR2-MA	PCM25H-W+K30	1990322
Control box with cable, plug and capacitor	-	X	2-11,5	1	-	X	-	40	-	-	S-STAR2-MA	PCM25H-W+K40	1990323
Capacitorbox for 2 pumps 30/60µF and start relay												KON-Box25-30/60	1974409
Capacitorbox for 2 pumps 50/100µF and start relay												KON-Box25-50/100	1974410

When selecting PCM for GRP type pumps in AC (start and operational capacitor), the corresponding capacitor box must also be selected for the PCM15 (25)-W basic unit. These 2 items must be connected on site / after wall mounting.

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