

MULTICON

MULTI-CHANNEL CONTROLLER

CHARACTERISTICS

The Multi-Channel Controller MULTICON allows the connection of up to 6 digital sensors with RS485 Modbus RTU interface.

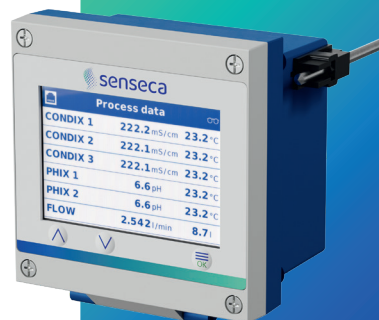
Operation is carried out via a user-friendly TFT display with intuitive menu navigation, enabling easy installation, configuration, maintenance (e. g., calibration), and operation of the system.

A flow meter with frequency output can be connected and configured through the binary additional input. The operation and configuration capabilities of MULTICON automatically initialize the digital sensors for easy integration and sensor replacement.

Process values and diagnostic information are provided via Ethernet. Integration is done through the PROFINET IO protocol and the provided GSDML device description file.

The configuration of the system (both MULTICON and connected sensors) can be conveniently done using the SENSware configuration software and the included USB-C connection.

For configuration purposes, the system can be powered via USB, eliminating the need for a separate auxiliary power supply.



www.senseca.com



SMART TECHNOLOGY

- Easy integration via PROFINET IO



EASY TO SET UP

- Intuitive operation
- Convenient configuration of all sensors via the SENSware configuration tool



ACCURATE & RELIABLE

- Accurate industrial housing
- Tested to industry standards



GREAT FLEXIBILITY

- Connection of up to 6 digital sensors
- Available measured variables: pH, redox, conductivity and flow rate

Technical Data

Power supply

Supply voltage 10...30V DC or 5V with USB (configuration)

Isolation Supply + Input / Communication

Power consumption <5VA

Ambient / storage temperature -10 °... +50°C

Conformity CE

Input flow

Type TTL (PNP / NPN)

Frequency 0.1/10...1000 Hz

Voltage range 10...30V

Switching threshold

- Low <0,9V

- High >2,1V

Input resistance: 40kOhm

Input digital sensors

Protection class IP65

Transmitter supply 24V DC, 300 mA max. (short-circuit-proof)

Interface RS485

Protocol Modbus RTU

Topology Linear architecture

Number of sensors 6 max. in any configuration

Field bus

Protocol PROFINET IO (RT)

Port Ethernet 1 Port, 4-pole,
Single conductors 100Mb/s, max.

Topology End-device (1 Port)

Available values Process values, Diagnosis values

Display

Type 3.5" TFT color display

Resolution 480x320p

Housing

Mounting:

- Field inside mounting holes

- Cabinet DIN 96²

Gasket and mounting brackets included

Materials Housing polyamide glass fiber reinforced
PA6-GF/GK 15/15, front foil polyester

Dimensions, W x H x D 98x98x66mm (external dimensions)
92x92x42mm (installation dimensions)

Protection class IP65

Weight 360 g, max.

Electrical connections

Terminals Spring terminals 2.5 mm² flexible,
4.0 mm² wire or plug-in connection cable

Cable feed 1xM12x1 plug (bus)
1xM20 cable gland (clamping range 6 - 12mm) with
multiple sealing insert 2x6mm (sensors, auxiliary voltage)

Configuration

Scope MULTICON-H and Sensors

Connector USB-C (MULTICON-H supply possible)

PC-Software SENSware

Dimensions

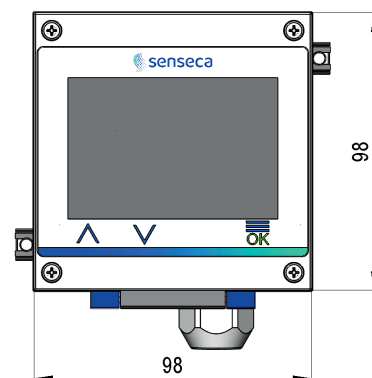


Fig. 1: Front view

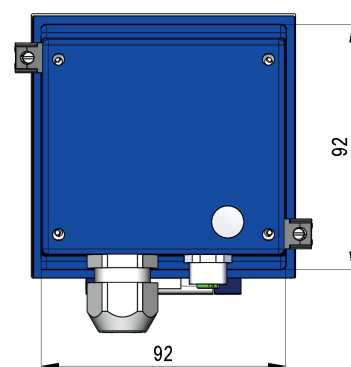


Fig. 2: Back view

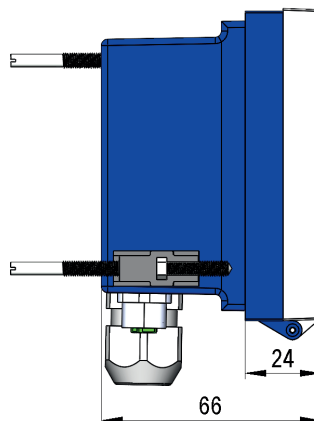


Fig. 3: Site view (front /left)

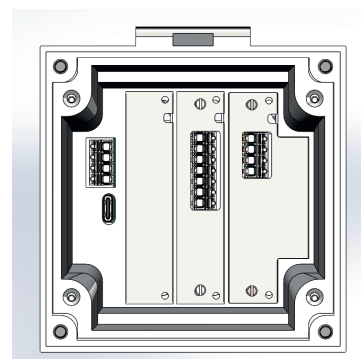


Fig. 4: Electrical connections

Ordering Code

MULTICON - 1. - 2. - 3. - 4. - 5. - 6. - 7.

| | | |
|----|----------------------|--|
| 1. | Model | |
| | H | 6-channel model |
| 2. | EA-Slot C | |
| | RS | 1 x RS485 input card for digital sensors, 1 x frequency input |
| 3. | EA-Slot B | |
| | 00 | Without |
| 4. | Power Supply, Slot A | |
| | 24DI | 24VDC (+/-15%) for 6-channel model |
| 5. | Fieldbus | |
| | PN | ProfiNet |
| 6. | Options | |
| | 00 | Without |
| 7. | Documentation | |
| | 00 | Without |
| | DE | Deutsch |
| | EN | Englisch |

Compatible sensors

| OrderNo. | Type | Description |
|----------|----------------------------|--|
| 416118 | CONDIX4213-C0,5-MB-00 | Digital conductivity transmitter |
| 473967 | CONDIX4613-C0,4-G1/2-MB-00 | Digital conductivity transmitter |
| 474936 | CONDIX4623-C0,5-G3/4-MB-00 | Digital conductivity transmitter |
| 486457 | PHIX-S8-MB-00 | Digital pH and redox transmitter, for electrodes with S7/S8 connector plug |
| 486456 | PHIX-VP-MB-00 | Digital pH transmitter, for electrodes with VarioPin connector plug |

Accessories

| OrderNo. | Type | Description |
|----------|----------|--|
| - | SENSware | Download: www.senseca.com |

Sensor plug connector, field attachable, 8-pin

| | | |
|--------|-----------|------------------------------------|
| 476332 | ACI113-00 | Belden RKC8/9, Brass nickel-plated |
| 476331 | ACI113-VA | Binder 713, Stainless steel |

Sensor cable, shielded, 8-pin, connection socket/open ends

| | | |
|--------|-----------------|------|
| 476533 | ACI113-002-1-00 | 2 m |
| 476116 | ACI113-005-1-00 | 5 m |
| 476117 | ACI113-010-1-00 | 10 m |
| 476118 | ACI113-025-1-00 | 25 m |

Connection diagram

