

# 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 SENSSware 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](http://www.senseca.com)



### SMART TECHNOLOGY

- Easy integration via PROFINET IO



### EASY TO SET UP

- Intuitive operation
- Convenient configuration of all sensors via the SENSSware 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

<b>Power supply</b>	
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
<b>Input flow</b>	
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
<b>Input digital sensors</b>	
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
<b>Field bus</b>	
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
<b>Display</b>	
Type	3.5" TFT color display
Resolution	480x320p
<b>Housing</b>	
Mounting:	
- Field	inside mounting holes
- Cabinet	DIN 96 <sup>2</sup> 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.
<b>Electrical connections</b>	
Terminals	Spring terminals 2.5 mm <sup>2</sup> flexible, 4.0 mm <sup>2</sup> 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)
<b>Configuration</b>	
Scope	MULTICON-H and Sensors
Connector	USB-C (MULTICON-H supply possible)
PC-Software	SENSSware

## Dimensions

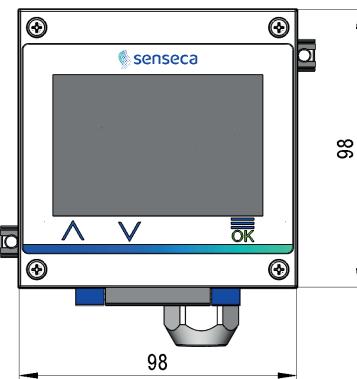


Fig. 1: Front view

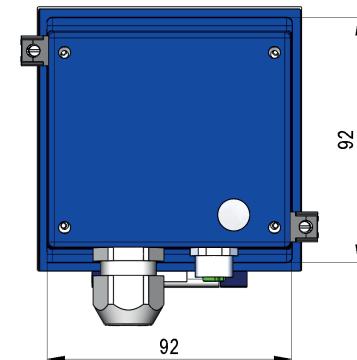


Fig. 2: Back view

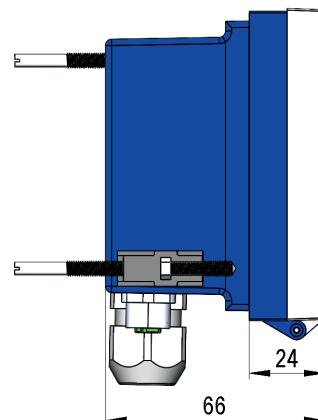


Fig. 3: Site view (front /left)

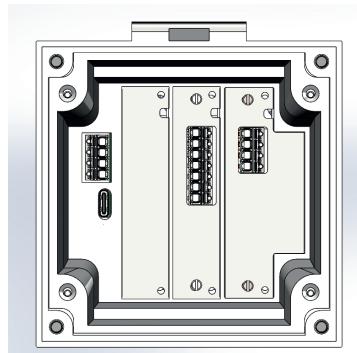


Fig. 4: Electrical connections

## 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: <a href="http://www.senseca.com">www.senseca.com</a>

### 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

