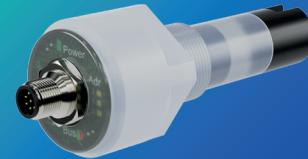


# CONDIX4623

## DIGITAL CONDUCTIVITY- CONVERTER

### CHARACTERISTICS

The digital conductivity converter CONDIX4623 is used for the conductivity measurement of liquids. The integrated digital transmitter submits values and parameters to a master (e. g. PLC, SCADA). Device parameters and input configuration are adjustable via the interface or SENSware configuration software. Application dependent six different types of temperature compensation are available. The 4-electrode measurement principle with a cell constant of C0.5 1/cm is suitable for a range of applications up to 500 mS/cm. Applications can be found in the water treatment of landfill seeping water, seawater or black water treatment on ships.



[www.senseca.com](http://www.senseca.com)



#### SMART TECHNOLOGY

- Provides process values, identification data, diagnostic data
- RS485 Interface with MODBUS RTU-protocol



#### EASY TO SET UP & QUICK TO INSTALL

- Installation with pipe thread DIN ISO 228 (DIN 259; BSP)



#### ACCURATE & RELIABLE

- Resistant against pollution
- Not influenced by polarisation effect or wire resistive



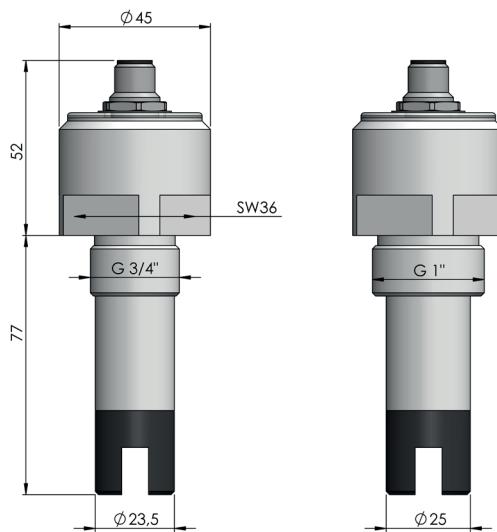
#### GREAT FLEXIBILITY

- 6 types of temperature compensation selectable

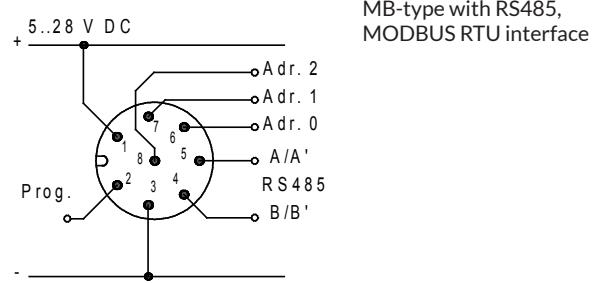
## Technical Data

Power supply	
Supply voltage	4.7..28 V DC, max. 60 mA
Conformity	CE
Inputs	
Cell constant	C = 0.5 1/cm (exact cell constant labelled on the type plate)
Measuring range	
Conductivity	0...500mS/cm
Temperature	-50..+200°C
Basic accuracy	
Conductivity	1% of measured value (>2% of measured value for <20µS/cm)
Temperature	0.2 K
Linearization errors	
Temperature	0.1%
Operating temperature	0..+60 °C
Ambient/storage temperature	-10...+60°C
Condensation	not allowed
Process connection	pipe thread DIN ISO 228 (DIN 259; BSP)
Process pressure	max. -1..16 bar
Material	
Process material	PVDF, casting resin, graphite (electrodes)
Viewing window	Acrylic glass (PMMA)
Electrical connection	
Design	8 pole round connector plug M12x1, IP67
Materials	brass nickel plated
Interface	RS485, Half-Duplex
Protokoll	MODBUS RTU
Baud rates	1200, 2400, 4800, 9600, 19200
Total weight	ca. 160 g
Protection class	IP67
Temperature comp. selectable	<ul style="list-style-type: none"> <li>- without temperature compensation</li> <li>- linear temperature coefficient</li> <li>- compensation of natural waters</li> <li>- ASTM-D1125 ultra-pure water</li> <li>- NaCl diluted solution</li> <li>- ASTM-D5391 acidic pure water</li> <li>- ASTM-D5391 alkaline pure water</li> </ul>

## Dimensions



## Connection diagram



PIN	Signal	Cable color ACI113
1	+ Supply voltage	White
2	Programming PIN (normally not connected)	Brown
3	- Supply voltage, Ground (C/C')	Green
4	B/B' Bus	Yellow
5	A/A' Bus	Grey
6	Adr. 0	Pink
7	Adr. 1	Blue
8	Adr. 2	Red (shield)

The addressing of the CONDIX can be realized with a field attachable female connector (see accessories) or in a junction box.

## Ordering code

CONDIX  -  -  -  -  -

1.	Model	
	4623	
2.	Cell constant	
	C0.5	
3.	Process connection	
	G 3/4 A	G 3/4 A
	G 1 A	G 1 A
4.	Interface	
	MB	RS 485, MODBUS RTU
5.	Optionen	
	00	Without option
6.	Documentation	
	00 DE EN	Without Deutsch Englisch

## Accessories

Order No.	Type	Description
-	SENSware	Download: <a href="http://www.senseca.com">www.senseca.com</a>
475291	EYY220	Programming adapter
476332	ACI113-00	Field attachable 8-pole female connector, Belden RKC8/9, Brass nickel plated
476331	ACI113-VA	Field attachable 8-pole female connector, Binder 713, stainless steel
476533	ACI113-002-1-00	8-pole female connector M12 (Brass nickel plated) with shielded cable and wire-end ferrules: 2 m
476116	ACI113-005-1-00	8-pole female connector M12 (Brass nickel plated) with shielded cable and wire-end ferrules: 5 m
476117	ACI113-010-1-00	8-pole female connector M12 (Brass nickel plated) with shielded cable and wire-end ferrules: 10 m
476118	ACI113-025-1-00	8-pole female connector M12 (Brass nickel plated) with shielded cable and wire-end ferrules: 25 m

## Optical signalling



Top view CONDIX4623: Optical signalling for supply voltage, bus communication and addressing.