

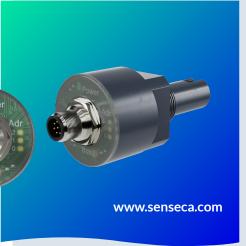
CONDIX4613

DIGITAL CONDUCTIVITY-CONVERTER

CHARACTERISTICS

The digital conductivity converter CONDIX4613 is used for the conductivity measurement of liquids. The integrated digital transmitter submits values and parameters to a master (e.g. PLC, SCADA). The Modbus RTU protocol on RS485 is used for communication. This enables integration into existing networks as well as use with the multichannel controller MULTICON-H. 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 C0.4 1/cm is suitable for a range of applications up to 200 mS/cm.

Applications can be found in the water treatment of landfill seeping water, seawater or black water treatment on ships.





SMART TECHNOLOGY

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



EASY TO SET UP & QUICK TO INSTALL

Installation with PVC-U standard fittings



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 = 0.4 1/cm (exact cell constant

labelled on the type plate)

Measuring range

Conductivity 0...20 µS/cm up to 0...200 mS/cm

Temperature -50..+200°C

Basic accurac

Conductivity 1% of the measuring value

Temperature 0.2 K

Linearization errors

Temperature 0.10%
Operating 0..+60 °C

temperature

Ambient -10..60 °C

temperature

Storage temperature -10..60°C

Condensation not allowed

Climate classification EN 60068-2-38

Vibrations EN 60068-2-6, GL test 2

Process connection pipe thread DIN ISO 228 (DIN 259; BSP)

Process pressure max. -1..16 bar

Material

Process material PVC-U, casting resin, graphite (electrodes)

Viewing window Acrylic glass (PMMA)

Electrical connection

Design 8 pole round connector plug

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.

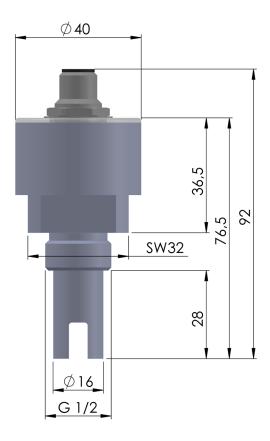
Selectable - without temperature compensation

- linear temperature coefficient- compensation of natural waters- ASTM-D1125 ultra-pure water

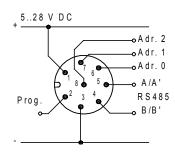
- NaCl diluted solution

- ASTM-D5391 acidic pure water - ASTM-D5391 alkaline pure water

Dimensions



Connection diagram



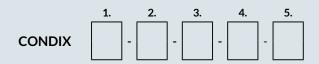
MB-type with RS485, MODBUS RTU interface

PIN	Signal	Cable color ACI113
1	+ Supply voltage	White
2	Programming PIN (normally not connected)	Brown
3	- Supply voltage, Ground (C / Cʻ)	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

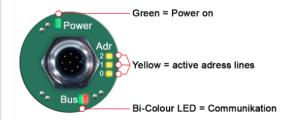


1.	Model		
	4613		
2.	Cell constant		
	C0.4		
3.	Process connection		
	G½A	G ½ A	
4.	Interface		
	МВ	RS 485, MODBUS RTU	
5.	Options		
	00	Without option	

Accessories

Art. No.	Туре	Description
	SENSware	Download: www.senseca.com
475291	EYY220	Programming adapter
476332	ACI113-00	Field attachable 8-pole female con-nector, Belden RKC8/9, Brass nickel plated
476331	ACI113-VA	Field attachable 8-pole female con-nector, 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 signaling



Top view CONDIX4613: Optical signalling for supply voltage, bus communication and addressing.

