

Conductivity Sensor

Conductive conductivity sensor for TOPAX LF1



EN

⁰²

Supplement

To be held for future reference.

Conductive Conductivity Sensor (for TOPAX LF1)

Description

Standard sensor for registration of electrolytic conductivity.

Conductive measuring with two electrodes and with included temperature sensor Pt 100.

Technical datas	
Material of sensor	PVDF
Material of electrode	Stainless steel (concentrically placed, 1.4571)
Electrical connector	4-poligern Winkelstecker
Mechanica connection	PVDF-thread 3/4"
Temperature arrange	0 ... 135 °C
Max. pressure	16 bar (at 25 °C) 9 bar (at 60 °C)
Temperature-sensor	Pt 100
Deliverable constants (c-values)	0,05 /cm, 0,2 /cm, 1,0 /cm
Recommended measuring range	c = 0,05/cm ... 200 µS/cm c = 0,2/cm ... 2 mS/cm c = 1,0/cm ... 20 mS/cm
sensor length incl. connector	186 mm
Installation depth, beginning at thread	100 mm
Min. immersion depth	60 mm
Shank diameter	20 mm

Tab. 1: Technical data

Dimensions

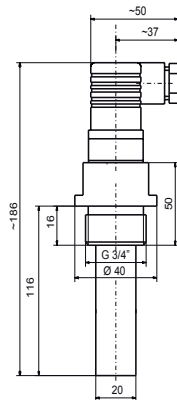


Fig. 1: Dimension sensor

Connection Table

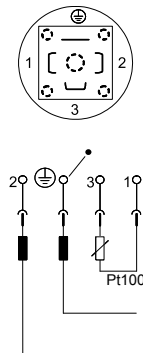


Fig. 2: Connection table of the sensor

Connector

The sensor will be delivered with a 4-pin angular connector (with screw connections) and without cable. The cable has to be ordered separately, must be 4 wired (Typ: LIYCY 4x0,5 mm) and max. 15 m in the length.

Sensor	Sign	Color
Inside electrode	2	white
Outside electrode	Ground	brown
Temperature sensor PT 100 (polarity free)	1 / 3	yellow/green

Tab. 3: Cable information

1. Loosen the screw of the angular connector and remove it.
2. Take out the contact holder by pushing the corner between pin 1 and 3 with a screwdriver.
3. Loosen the PG-thread of the angular connector and mount the cable through the connector.
4. Remove the isolation of the cable and wires. Connect the cable (see fig. 2).

NOTE!

Don't connect the shield of the cable at the TOPAX LF controller!

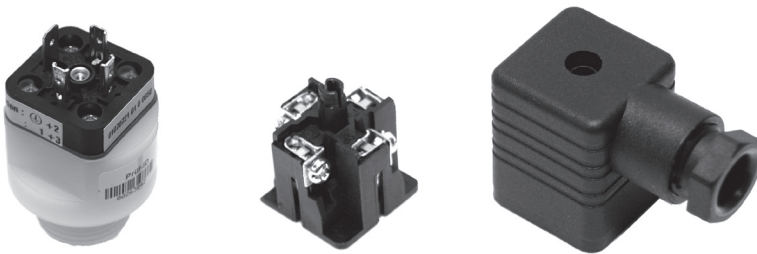


Fig. 3: Connectors of the sensor, contact holder and angular connector

Product name	Order no.
Conductive Conductivity Sensor, up to 200 $\mu\text{S}/\text{cm}$ for TOPAX LF1	45000001
Conductive Conductivity Sensor, up to 2 mS/cm for TOPAX LF1	45000002
Conductive Conductivity Sensor, up to 20 mS/cm for TOPAX LF1	45000003

Tab. 2: Order information





Declaration of harmlessness

Please copy and send in with your device!
Please display anon the outer packaging!

Declaration of harmlessness

(please fill out a separate form for each appliance)

We forward the following device for repairs:

Type of device: _____

Part-no.: _____

Order-no.: _____

Delivery date: _____

Reason for repair: _____

Medium used: _____ Properties: irritant: yes/no
corrosive: yes/no

We hereby certify that the machine has been thoroughly cleaned inside and out before its dispatch and that it is free from health risk chemical, biological and radioactive materials as well as having been drained of oil. *)

If the manufacturer find it necessary to carry out further cleaning work, we accept the charge will be made to us.

We certify that the aforementioned information is correct and complete and that the unit is dispatched in compliance with legal requirements.

Company / address:

Phone:

Fax:

E-Mail:

Customer-number:

Contact person:

Date

Signature / stamp

*) If not applicable please cross out!

Warranty

Please copy and send with the device.

If the device breaks down within the period of warranty, please return it in a cleaned condition with the complete warranty application, filled out.

Sender

Company:..... Phone:..... Date:.....

Address:.....

Contact person:

Manufacturer order-no.: Delivery date:.....

Device type:..... Serial no.:

Nominal capacity/nominal pressure:

Description of fault:

.....

.....

Type of fault:

1. Mechanical fault

- premature wear
- wear parts
- breakage/other damage
- damage in transit

2. Electrical fault

- loose connections such as plug connector or cable
- operating elements (e.g., switches/buttons)
- electronics - corrosion

3. Leaks

- connections
- dosing head

4. No or inadequate function

- defective diaphragm
- other

Service conditions of the device

Point of use / system designation:.....

Accessories used (Suction line, etc.):.....

.....

.....

Commissioning (date):.....

Duty period (approx. operating hours):.....

Please describe the specifics of the installation and provide a simple diagram with details of the material, diameter, length and levels.

