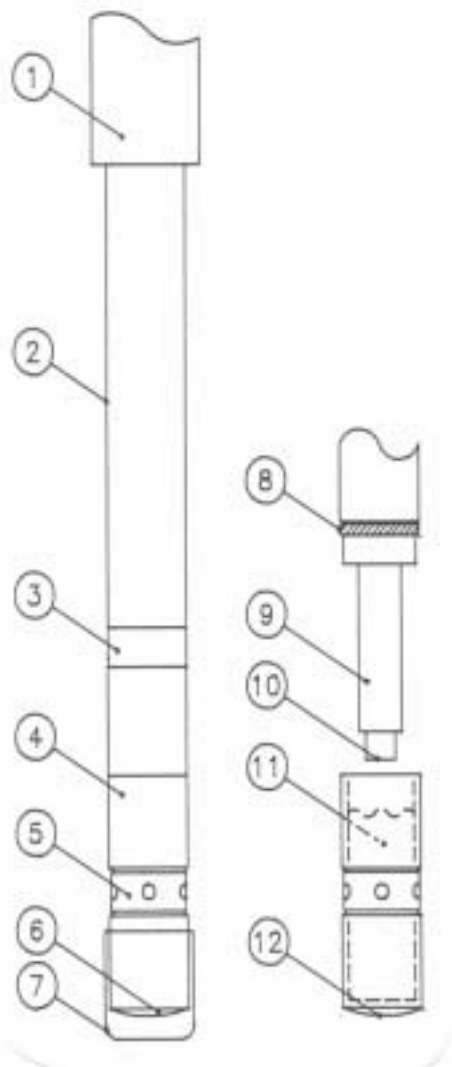


SZ 654.1

DISSOLVED OXYGEN POLAROGRAPHIC CELL WITH TEMPERATURE SENSOR



Part description

1. Cap
2. Sensor body
3. Temperature sensor
4. Reservoir
5. Silicon hose
6. Membrane
7. Protective cap
8. Internal sealing
9. Anode Ag
10. Cathode Pt
11. Electrolyte
12. Membrane cartridge
13. Membrane cartridge sealing
14. Extractor of membrane cartridge

TECHNICAL DATA

- D.O. sensor:
 - * Polarographic cell
 - * Current in air 250 nA
- Temperature sensor: RTD Pt100

OPERATING CONDITION

- Pressure: 0/2 bar
- Temperature: 0/50 °C

OPERATING INSTRUCTION

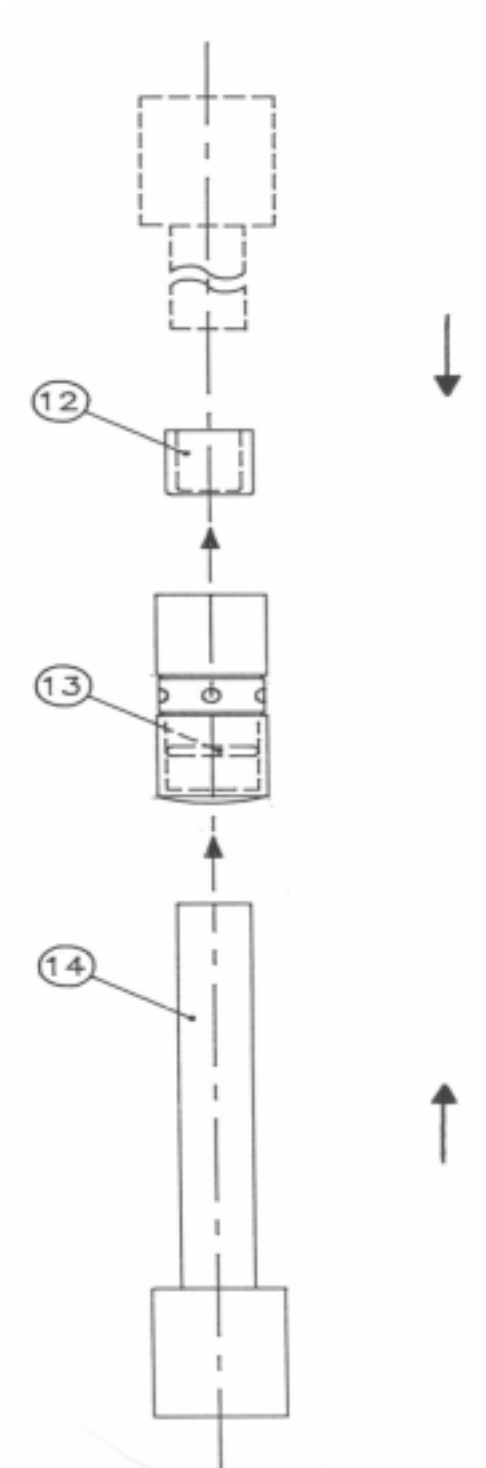
- A) Start-up
 - Remove the protective cap
 - In presence of air bubbles proceed as in step C)
 - Before calibration keep the sensor in potable water for 1 day
- B) Maintenance
 - Clean the membrane from dirtiness with HCl 2%
 - In presence of air bubbles proceed as in step C)
- C) Refilling of electrolyte
 - Unscrew the reservoir
 - Refill of electrolyte
 - Eliminate air bubbles
 - Screw on the reservoir, the electrolyte in excess will flow out
- D) Storage
 - Put the protective cap back
 - Keep the sensor in dry place

CONNECTIONS

- internal coax: Pt (Cathode)
- external coax: Ag (Anode)
- red wire: RTD Pt100
- white/green wires: RTD Pt100

Spare parts

- a. Electrolyte
- b. Membrane
- c. Silicon hose
- d. Syringe



MEMBRANE REPLACEMENT

- It is necessary to replace the membrane:
 - * in case of breakage
 - * in case of low sensitivity

REASSEMBLING OPERATIONS

- Unscrew the reservoir
- Discharge the electrolyte
- Put the top of the extractor 14 against the membrane cartridge
- Push softly to release the cartridge 12 from the sealing 13
- Check the sealing and eventually replace it
- Place the new cartridge
- Using the extractor position the new cartridge in a way that the membrane will protrude from the top of the reservoir
- Refill with electrolyte as in step C

REMOVING THE MEMBRANE

WARNINGS

- Do not immerse the cable in the medium, do not damage the membrane
- Avoid contact of the wires with liquids
- Do not touch the electrodes during the maintenance