

Operating Instructions
for
Process assembly for one glass
electrode Pg 13.5

Model: AZA-Z6



We don't accept warranty and liability claims neither upon this publication nor in case of improper treatment of the described products.

The document may contain technical inaccuracies and typographical errors. The content will be revised on a regular basis. These changes will be implemented in later versions. The described products can be improved and changed at any time without prior notice.

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2. Note

Please read these operating instructions before unpacking and putting the unit into operation. Follow the instructions precisely as described herein.

The instruction manuals on our website www.kobold.com are always for currently manufactured version of our products. Due to technical changes, the instruction manuals available online may not always correspond to the product version you have purchased. If you need an instruction manual that corresponds to the purchased product version, you can request it from us free of charge by email (info.de@kobold.com) in PDF format, specifying the relevant invoice number and serial number. If you wish, the operating instructions can also be sent to you by post in paper form against an applicable postage fee.

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

The devices are only to be used, maintained and serviced by persons familiar with these operating instructions and in accordance with local regulations applying to Health & Safety and prevention of accidents.

When used in machines, the measuring unit should be used only when the machines fulfil the EC machinery directive.

3. Instrument Inspection

Instruments are inspected before shipping and sent out in perfect condition. Should damage to a device be visible, we recommend a thorough inspection of the delivery packaging. In case of damage, please inform your parcel service / forwarding agent immediately, since they are responsible for damages during transit.

Scope of delivery:

The standard delivery includes:

- Process assembly for one glass electrode Pg 13.5 model: AZA-Z6

4. Regulation Use

Any use of the device, which exceeds the manufacturer's specification, may invalidate its warranty. Therefore, any resulting damage is not the responsibility of the manufacturer. The user assumes all risk for such usage.

5. Device description

Quick-change fitting

Quick-change fittings that can be operated manually enable the installation and removal of the sensor under process conditions, i. e. without interrupting the appropriate cycle or main flow.

Typical applications

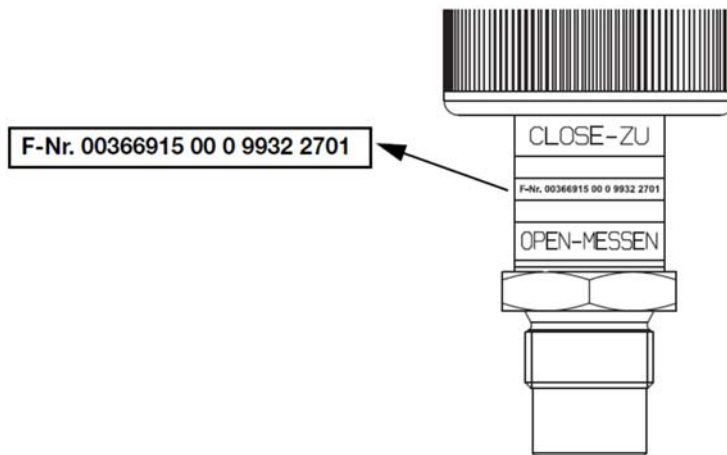
- Measurements in closed liquid cycles, e.g. pH measurement in cooling and wastewater plants
- Measurements in closed containers and tanks
- pH final check in the outflow, in cases where a bypass is not possible

Suitable sensors

e.g. pH, redox, conductivity sensors, compensation thermometers with 12 mm max. shaft diameter and a Pg13.5 screw-in thread.

- Sensor length 120 mm, for Type AZA-Z6
-

6. Name plate



The nameplate is affixed to the screw-in sleeve.

7. Installation

7.1 Location

Basics

The location should be easily accessible and free from vibration. Permissible ambient temperature for fittings in

stainless steel: -30 to +135 °C

Note possible radiated heat!



Warning

The quick-change fitting must be depressurized before assembling or disassembling!

Depending on the application, any liquid that may run out could be corrosive!

Operating position

The operating position is generally unrestricted, but depends on the individual sensor.

Earthing

Depending on the installation, it may be necessary to earth the quick-change fitting!

Earthing screws, see „Dimensions“

Protection

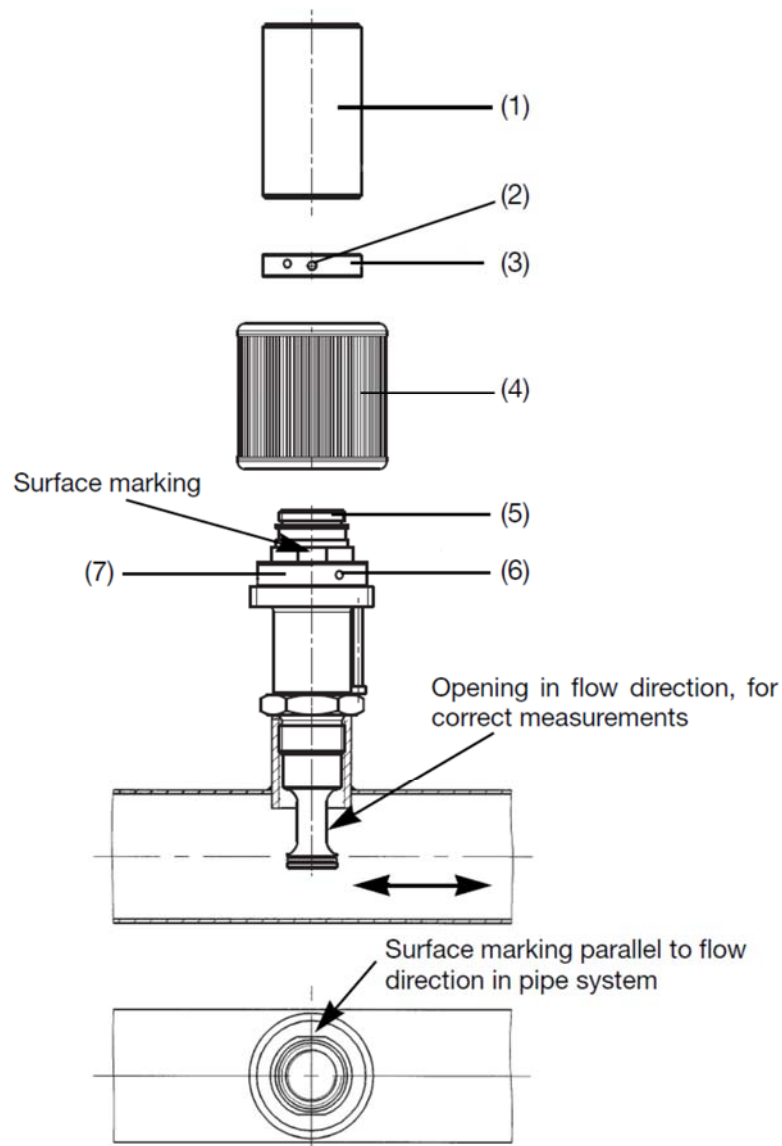
The protection depends on the individual sensor.

Admissible ambient temperature

The ambient temperature depends on the sensor that is used!

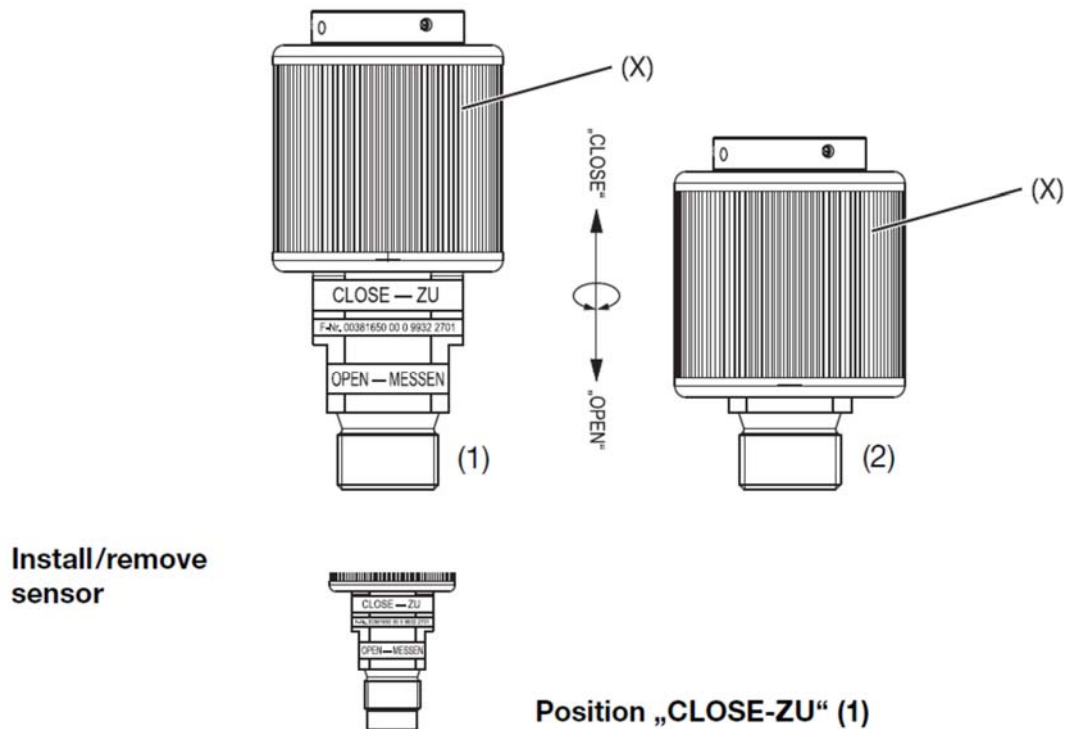
7.1.1 Positioning the sensor pocket in the pipeline

- Unscrew protective cap (1).
- Release grub screw (2) using a 2 mm hexagon socket wrench (included in delivery), take off ring (3).
- Unscrew union nut (4) by hand.
- Release grub screw (6) in the setting ring (7) using a 2mm hexagon socket wrench.
- Position electrode pocket (5) parallel to the flow-through system (see surface marking).
- Assemble quick-change fitting in reverse order.



8. Function/operation

Turning the union nut X moves the sensor within the quick-change fitting.



- Turn the union nut X to the right, up to the stop.
When the marking “CLOSE-ZU” becomes visible, looking at the quick-change fitting from the side, the sensor can be removed.

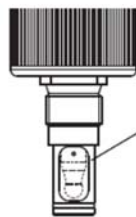


Caution

Take all the necessary precautions when removing the sensor! If the union nut X can only be removed by using considerable force, or the end stop cannot be reached (marking “CLOSE-ZU” not wholly visible), then blockages or dirt deposits at the sensor/protective basket may be the reason. The pipeline system has to be locked or depressurized, or the container has to be emptied to below the installation level of the fitting. The fitting then has to be completely de-installed and serviced, see chapter “Maintenance and cleaning”

The maximum tightening torque (3 Nm) has to be observed when installing the sensor!

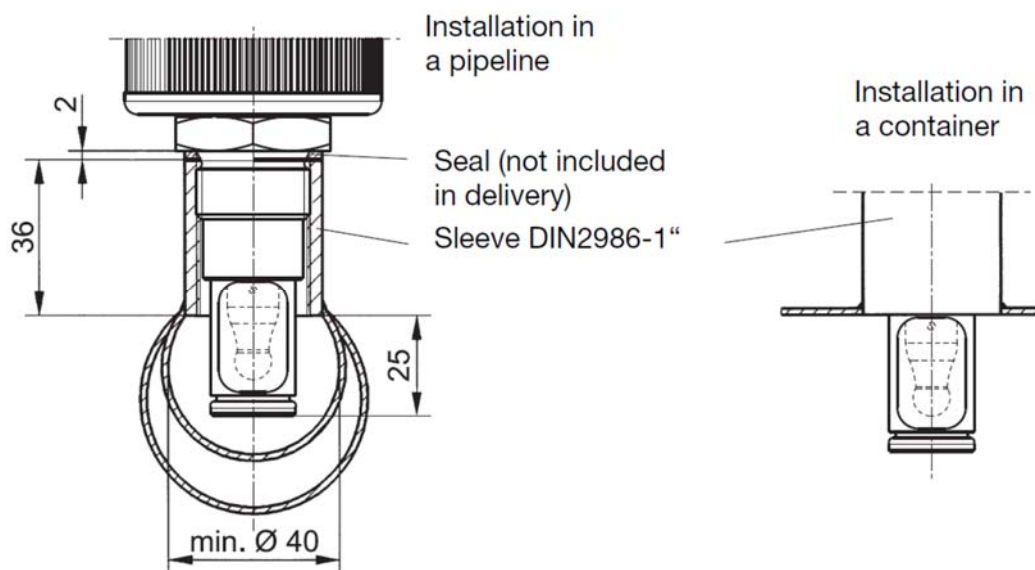
Measurement mode



protective basket

Position „OPEN-MESSEN“ (2)

- Turn the union nut X to the left, up to the stop.
The protective basket of the fitting is immersed in the liquid together with the sensor.
On correct and unimpeded immersion of the protective basket the marking “OPEN-MESSEN” below the union nut X will disappear.



9. Maintenance and cleaning

**Caution**

All settings and maintenance operations on the quick-change fitting must only be made in a depressurized condition!

Depending on the application (temperature/pressure requirements, contamination and frequency of operation), a maintenance interval has to be scheduled. This involves servicing the moving parts of the quick-change fitting as described below.

Spare parts: replacement O-rings are included in delivery Suitable are: FPM O-rings 25 x 2 and 16 x 2.

Dismantling the quick-change fitting

Diagrams see following page.

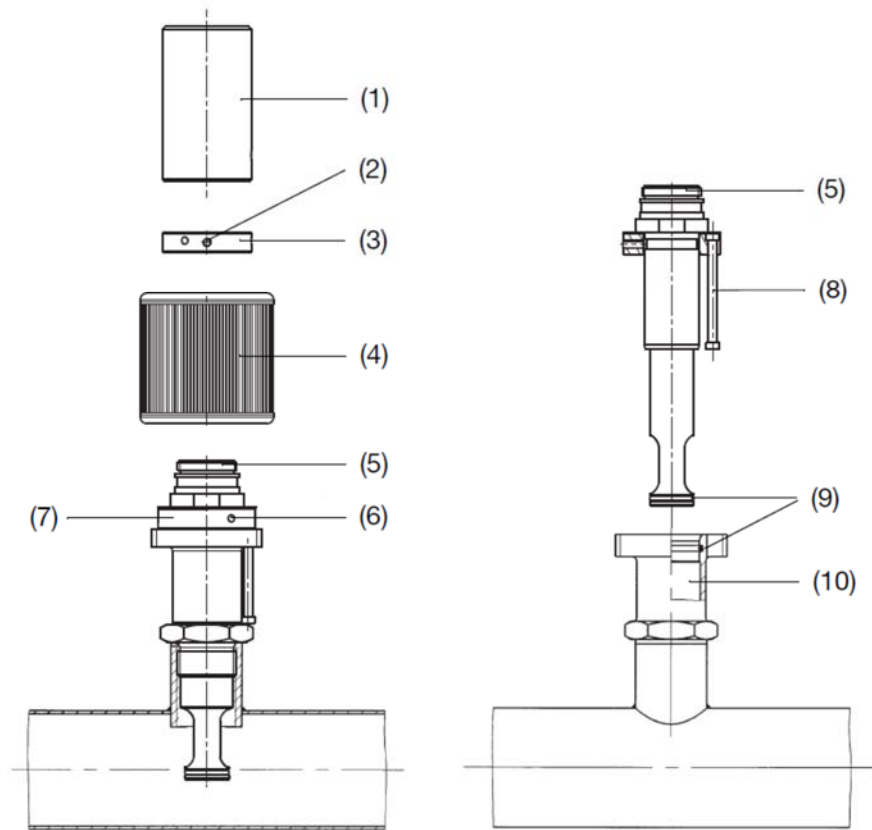
- * Unscrew protective cap (1).
- * Release grub screw (2) using a 2 mm hexagon socket wrench (included in delivery), remove ring (3).
- * Unscrew union nut (4) by hand.
- * Release grub screw (6) in setting ring (7) using a 2 mm hexagon socket wrench.
- * Remove locking pin (8).
- * Pull out electrode pocket (5) from screw-in pocket (10).
- * Clean electrode pocket (5) and screw-in pocket (10).
- * Check O-rings (9), replace, if necessary (accessory).
- * Grease O-rings (9) before fitting.
- * Assemble quick-change fitting in reverse order.

**Caution**

- * **Fit locking pin (8)!**
 - * **Screw in grub screw (2 and 6) tightly!**
-

**Note**

Suitable greases: vaseline, acid-free greases, silicone oil etc. Check compatibility with the solution!



- (1) Protective cap
- (2) Grub screw
- (3) Ring
- (4) Union nut
- (5) Electrode pocket
- (6) Grub screw
- (7) Setting ring
- (8) Locking pin
- (9) O-ring
- (10) Screw-in pocket

10. Technical Information

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

11. Order Codes

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

12. Dimensions

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

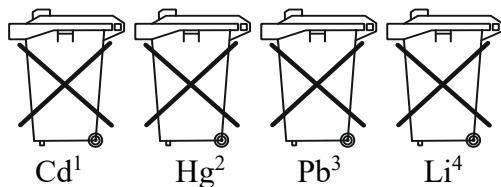
13. Disposal

Note!

- Avoid environmental damage caused by media-contaminated parts
- Dispose of the device and packaging in an environmentally friendly manner
- Comply with applicable national and international disposal regulations and environmental regulations.

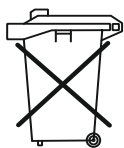
Batteries

Batteries containing pollutants are marked with a sign consisting of a crossed-out garbage can and the chemical symbol (Cd, Hg, Li or Pb) of the heavy metal that is decisive for the classification as containing pollutants:



1. „Cd" stands for cadmium
2. „Hg" stands for mercury
3. „Pb" stands for lead
4. „Li" stands for lithium

Electrical and electronic equipment



14. EU Declaration of Conformance

We, KOBOLD Messring GmbH, Nordring 22-24, 65719 Hofheim, Germany, declare under our sole responsibility that the product:

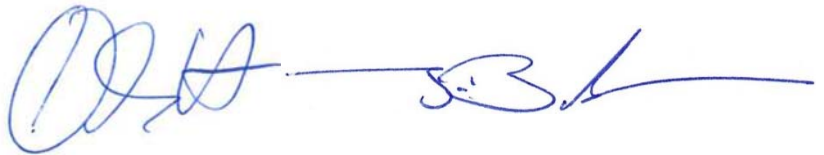
Process assembly for one glass electrode Pg 13.5 Model: AZA-Z6

to which this declaration relates is in conformity with the following EU directives stated below:

2011/65/EU
2015/863/EU

RoHS (category 9)
Delegated Directive (RoHS III)

Hofheim, 07 Sept. 2023



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