



Gel-filled ORP Combined Electrode



measuring
•
monitoring
•
analysing

ARS-Z
COMPACT-LINE



- Standard electrode with active section made of platinum or gold for ORP measurement
- Gel fill (0% silver ions)
- Salt distillate for longer life time
- Ceramic diaphragm or PTFE ring diaphragm (for very dirty or oily media)
- Rated pressure up to 10 bar
- Temperature range -10 °C ... +90 °C
- Discharge system Ag/AgCl as a cartridge



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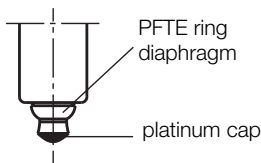
Description

The standard combined electrode for general pH measurements is filled with KCl gel (0% silver ions) and contains a salt distillate, which guarantees longer stability times. The discharge system Ag/AgCl has been designed as a cartridge. The combined electrode version with PTFE ring diaphragm is especially suitable for tough service conditions, for example, service in clarification plants or in oily and very soiled media. A temperature sensor Pt-100 can be integrated (SMEK screwed head conduit thread 13.5 version). The electrode can resist pressure up to 10 bar. Its dimensions are 120 x 12 mm (DIN 19 263).

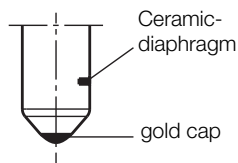
Selection of ORP electrodes

The selection of the ORP electrode depends primarily on the type of measured medium. The following basic rules should be followed:

- Gold-electrode
for oxidizing media,
for example cyanide oxidation, nitrite oxidation, ozone measurement and hydrogen-peroxide measurement
- Platinum electrode
Platinum for reducing media, for example chromate reduction, chlorine dosing in swimming pools.



Electrode with PTFE ring diaphragm and platinum cap



Electrode with ceramic diaphragm and gold cap

Connection cable for ORP electrodes

Low noise coaxial cable
Diameter: 5 mm in black
Thermostability: -25 ... +70 °C
Length: 5 metre, 10 metre



Order Code (cable): **APK-Z5K (5 metre)**
APK-Z1K (10 metre)

Technical Data

Material: general-purpose glass
Active section: gold or platinum
Diaphragm: ceramic, diameter 1 mm
PTFE, annular
Temperature range: -10 ... +90 °C
Pressure range: up to 10 bar
Length of shaft: 120 mm
Diameter: 12 mm
Threaded plug head: Pg 13.5

Order Details Combined Electrode (Example: ARS-Z 1 G 3)

Model	Diaphragm	Device version	Electrical connection
ARS-Z	1 = ceramic-diaphragm 2 = PTFE-diaphragm	G = Gold cap P = Platinum cap	3 = Screwed plug head PG 13.5