Liquid KCl Filled pH-Combined Electrode

EXPERT-LINE

- Measuring range pH 1 to 12
- Temperature range -15 to +80 °C
- KCl liquid electrolyte fill allowing service as well with low conductivities ≥ 1 µS/cm
- Ceramic diaphragm
- Option: integrated temperature sensor

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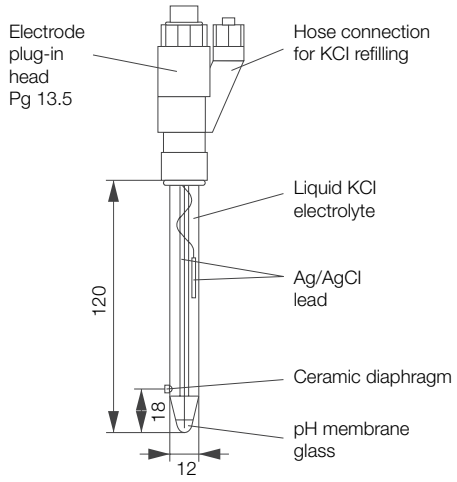
Model:
APS-X2Q

Description

The electrode filled with liquid KCl is used in media with very low conductivities (≥ 1 µS/cm), for example in high-purity water analysis or boiler feed water analysis. It is used as well in applications where the high concentration of organic solvents or alcohols which do not allow the use of a maintenance-free KCl gel filled electrode.
The electrode can be used up to a maximum pressure of 8 bar with back-pressure loading. A built-in temperature sensor Pt 100 is available as an option.
The length of the electrode is 120 mm. The connection head is a conduit thread 13.5 screwing.
Connection cable model APK-X is required when using the electrode.



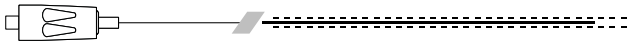
Technical Data

Material:	process-compatible glass
Diaphragm:	ceramic
pH-value:	1...12
Temperature range:	-15...+80 °C
Length of shaft:	120 mm
Diameter:	12 mm
Threaded plug head:	conduit thread 13.5
Minimum conductivity:	≥ 1 µS/cm at 1 diaphragm
KCl consumption (Δp=0,1 bar, t=25°C):	max. 3 mL/day

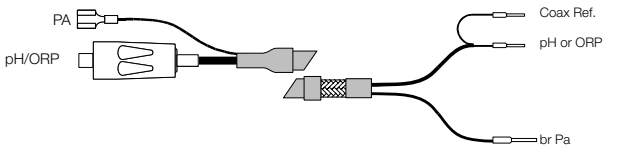
Connection cable and connector socket for pH electrodes model APS-X2Q

- Measuring cable with outer screen and coaxial conductor
- Cable sheath: PVC
- Cable diameter: 7 mm, 5 mm (APK-X5S)
- Thermostability: -25...+85 °C
  -10...+80 °C (APK-X5S)
- Length: 5 metre, 10 metre

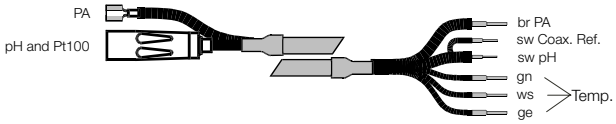
Standard coaxial cable APK-X5S, -X1S



Standard coaxial cable with PA* APK-X5P, -X1P



Coaxial cable for electrodes with Pt 100 APK-X5T, -X1T



Order Details Cable Connection

Model	Cable length	Cable type
APK-X	**1** = 10 m **5** = 5 m	**S** = standard coaxial cable for ORP **P** = standard coaxial cable with Pa* **T** = coaxial cable for electrodes with Pt100 sensor

* when using a fitting with an equipotential bonding pin (PA), in order to discharge any disturbance potentials and to ensure higher EMV.

Order Details Combined Electrode (Example: **APS-X 2 Q 2 K 1 A**)

Model	Diaphragm	Material	Measuring range	Temperature sensor	Electrical connection	Shaft length
APS-X	**2** = ceramik diaphragm, liquid KCl filled	**Q** = glass	**2** = pH 1-12; T = -15...80 °C	**K** = without temperature sensor **T** = with integrated Pt100 sensor	**1** = threaded plug head Pg 13.5	**A** = 120 mm

02 / 03-2007