

Gel-filled pH-Combined Electrode



EXPERT-LINE



- Measuring range pH 1 to 12
- Dirt-repelling,
 PTFE ring diaphragm,
 can be sterilised
- Maintenance-free KCl gel fill
- Temperature range -15 to +80°C
- Rated pressure up to 6 bar
- Built-in salt bridge, (protection against electrode poisons such as S²-, CN-)
- Long discharge cartridge, giving a considerably longer life
- Option: integrated temperature sensor





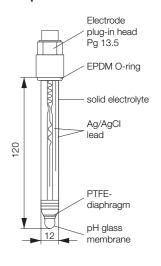
Description

The standard electrode for pH value is suited for almost all applications in the area of process water analysis and water treatment. The dirt-repelling ring diaphragm made of PTFE allows it to be used under difficult conditions, for example in very dirty or oily media. To extend the service life the combined electrode is filled with KCl gel and contains a long discharge plate. It is thus very easy to operate and requires little or no maintenance. The built-in salt bridge offers improved protection against electrode poisons such as S²- or CN-.

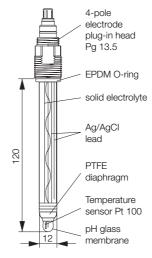
The length of the electrode is 120 mm. The connection head is a conduit thread 13.5 screwing.

Connection cable model APK-X is required when using the electrode.

APS-X1Q without temperature sensor



APS-X1Q with temperature sensor



Technical Data

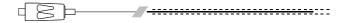
Material: process-compatible glass
Diaphragm: annular PTFE diaphragm

pH-value: 0...14, 1...12
Temperature range: $-15...+80\,^{\circ}$ C
Resistance to pressure: ≤ 6 bar
Shaft length: 120 mm
Diameter: 12 mm
Threaded plug head: Pg 13.5
Minimum conductivity: $\geq 50\,\mu$ S/cm

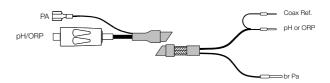
Connection cable and connector socket for pH electrodes model APS-X1Q

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

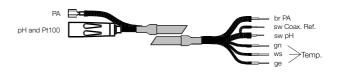
Standard coaxial cable APK-X5S, -X1S



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



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



Order Details Connection Cable

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 Pt 100 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 1 Q 1 K 1 A)

Model	Diaphragm	Material	Measuring range	Temperature sensor	Electrical connection	Shaft length
APS-X	1 = PTFE ring diaphragm, KCl-gel filling	Q =glass	1 = pH 0-14; T = +10100°C 2 = pH 1-12; T = -1580°C	K = without temperature sensor T = with integrated Pt 100 sensor	1 = threaded plug head Pg 13.5	A = 120 mm