



## Gel-filled pH-Combined Electrode



measuring  
•  
monitoring  
•  
analysing

APS-Z  
COMPACT-LINE



- Measuring range pH 0 ... 12
- KCl gel fill (0% silver ions)
- Salt distillate for longer life time
- Ceramic diaphragm or PTFE ring diaphragm (for very soiled or oily media)
- Integrated Pt 100 optional
- Rated pressure up to 10 bar
- Temperature range -5 °C ... +80 °C
- Discharge system Ag / AgCl in as a cartridge



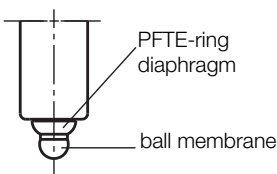
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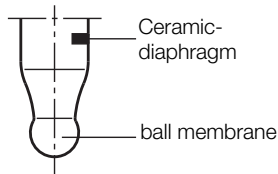
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**Description**

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).



Electrode with PTFE ring diaphragm



Electrode with ceramic diaphragm

**Technical Data**

Material: general-purpose glass  
 Diaphragm: ceramic, diameter 1 mm  
 PTFE, annular  
 pH-values: pH 0... 12  
 Temperature range: -5... +80 °C  
 Pressure range: up to 10 bar  
 Length of shaft: 120 mm  
 Diameter: 12 mm  
 Threaded plug head: Pg 13,5  
 Minimum conductivity: 100 µS/cm

**Connection cable APK-Z for pH electrodes model Model APS-Z**

- For pH measurement with an electrode without temperature sensor, model APK-Z...K:  
 Low noise coaxial cable  
 Diameter: 5 mm in black  
 Thermostability: -25... +70°C  
 Length: 5 metre, 10 metre



- For pH measurement with an electrode with temperature sensor, Model APK-Z...S:  
 Low noise coaxial cable with SMEK Plug head (3 stranded cables and shielding)  
 Diameter: 5,5 mm in black  
 Thermostability: -25... +80°C  
 Length: 5 metre, 10 metre

**Order Details Connection cable**

Model	Cable length	Cable type
APK-Z	5 = 5 m cable length	K = Standard coaxial cable S = coaxial cable for electrodes with Pt100 (SMEK-connection)
	1 = 10 m cable length	

**Order Details Combined Electrode** (Example: APS-Z 1 N 1)

Model	Diaphragm	Temperature sensor	Device version
APS-Z	1 = ceramic-diaphragm	<b>N</b> = without temperature sensor (N-screwed head conduit thread Pg 13.5) <b>T</b> = with temperature sensor (SMEK-head, Pg 13.5)	<b>1</b> = general purpose glass <b>2</b> = high temperature glass -5... +135 °C (ceramic-diaphragm) -5... +90 °C (PTFE-diaphragm)
	2 = PTFE-diaphragm		