Zirkon® pH fluoride
... for fluorid containing media

- **Fluoride resistant**
- **Low maintenance by gel filling / Long life expectancy by refillable reference electrode**
- **Made in Germany**

Applications

Fluoride Containing Media

205011320   205072100   205012320

Description

Sensors of the series Zirkon® pH fluoride are developed for the application in fluoride containing media. The special glass is resistant up to 500 mg/l fluoride. The sensors are mainly used in the semiconducter industry. The sensor design such as like reference electrode and junction are mainly determined by the water characteristics.

Technical data

Measuring parameter

pH-value   1.. 11 pH

Ambient conditions

Temperature   0.. 60 °C

Condutctivity	3M KCl	Tepox gel		
	> 50 µS/cm	> 150 µS/cm		

Pressure	plug PG	PG 13.5 loose	KCl pressure attachment	
	0.. 10 bar at 20°C	< 1 bar at 20 °C	< 6 bar at 20°C	

Pressure	PTFE	hole	Zircon	platinum
	< 10 bar at 20°C	< 1 bar pressureless	< 2 bar at 20°C	< 2 bar at 20°C

Mechanical construction

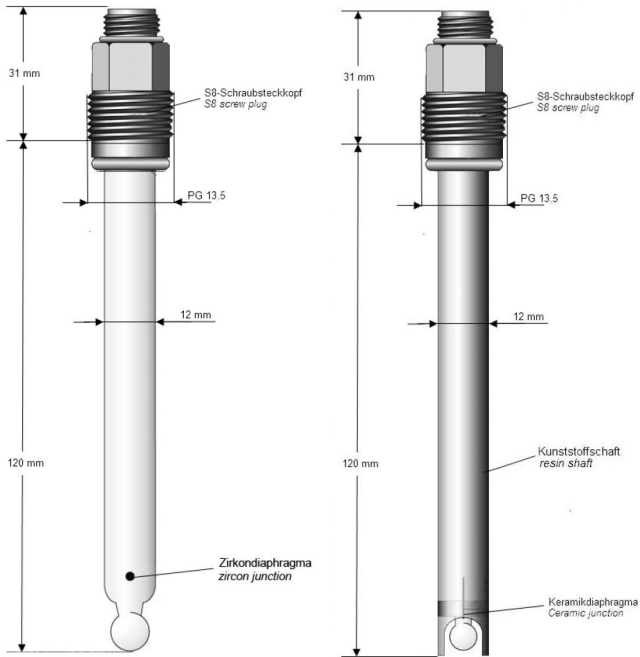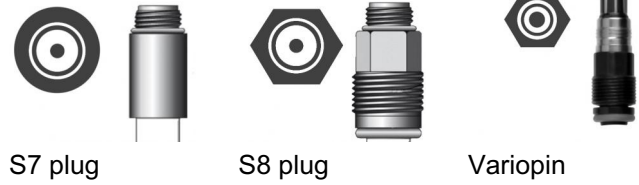|	
Junction	Zircon, PTFE, platinum, hole
Shaft material	Glass
Mechanical Construction	120 mm, 160 mm, 225 mm
Electrode material	S-glass-ball
Reference system	Ag/AgCl/3M KCl, Ag/AgCl/Tepox gel Ag/AgCl/solid electrolyte
Internal buffer	pH 7
Process connection	S8 plug (swivel PG 13.5), S7 plug, Variopin (swivel PG 13.5), fixed cable
Electrical connection	2 or 6 pole connection
Temperature sensor	none, Pt100, Pt1000

Zirkon® pH fluoride
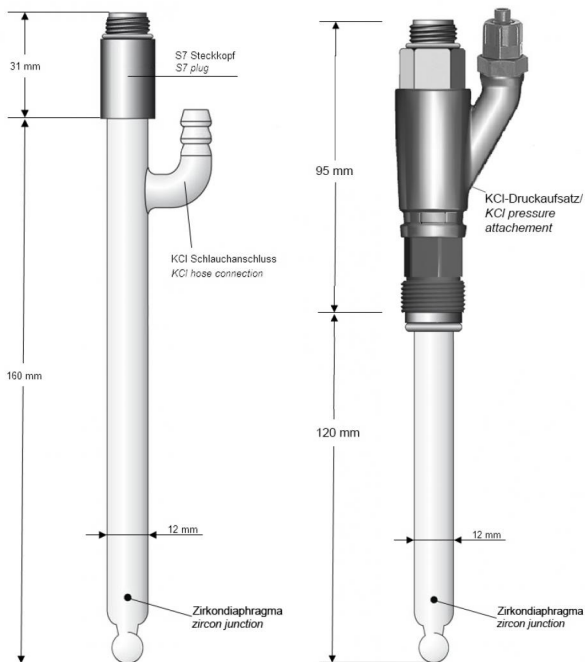## ... for fluorid containing media

Mechanical drawing

31 mm

S8-Schraubsteckkopf
S8 screw plug

PG 13,5

12 mm

120 mm

Zirkondiaphragma
zircon junction

205012100

31 mm

S8-Schraubsteckkopf
S8 screw plug

PG 13,5

12 mm

120 mm

Kunststoffschaft
resin shaft

Keramikdiaphragma
Ceramic junction

205012103

S7 plug

S8 plug

Variopin

PTFE

hole

31 mm

S7 Steckkopf
S7 plug

KCl Schlauchanschluss
KCl hose connection

160 mm

12 mm

Zirkondiaphragma
zircon junction

205011320

95 mm

KCl-Druckaufsatz/
KCl pressure attachement

120 mm

12 mm

Zirkondiaphragma
zircon junction

20401104

S7 Stecker

S8 plug

Variopin

circon

Order information

Gruppe *group*		
	205	*Zirkon® pH fluoride*
Temperatursensor *temperature probe*		
	0	kein *none*
	1	*Pt 100*
	2	*Pt 1000*
	9	Sonder *special*
Diaphragma *junction*		
	1	Zirkon *zircon*
	3	Platin *platinum*
	7	*PTFE*
	8	Loch *hole*
	9	Sonder *special*
Elektrolyt *electrolyte*		
	1	3M KCl flüssig *3M KCl liquid*
	2	Tepoxgel *Tepox gel*
	3	gesättigt KCl mit Salzvorrat *saturated KCl with salt reservoir*
	9	Sonder *special*
Anschluss *connection*		
	1	S8 Stecker (PG 13,5 - drehbar) *S8 plug (swivel PG 13,5)*
	3	S7 Stecker *S7 plug*
	6	VP Variopin Stecker *VP Variopin plug*
	7	Festangeschlossenes Kabel *fixed cable* Preis pro m rauscharmes Koaxkabel *price per m low-noise coax cable* Preis pro m rauscharmes Triaxkabel *price per m low-noise triax cable*
	9	Sonder *special*
Länge *length*		
	0	**120 mm**
	2	**160 mm**
	4	**225 mm**
	9	Sonderlänge *special length*
Sonder *special*		
	0	Kein *none*
	1	**IP 2**
	4	KCl-Druckaufsatz *KCl pressure attachement*
	K	Kabellänge *cable length* Beispiel: Ein Meter = K01, 10 Meter = K10 *Example: one meter = K01, 10 meter = K10*
	9	Sonder *special*

If possible, choose items listed under "storage versions" or "assembly versions" for your orders. We will have to technically inspect and approve a free combination of individual key features.

Storage version

Article number	type/configuration	Description
24132410K	205012100	pH sensor: zircon junction, Tepox gel, S8 plug (swivel PG 13.5), 120 mm
24132400K	205012320	pH sensor: zircon junction, Tepox gel, S7 plug, 160 mm
24132420K	205072100	pH sensor: PTFE junction, Tepox gel, S8 plug (swivel PG 13.5), 120 mm

Assembly version

Article number	type/configuration	Description
24132300K	205011320	pH sensor: zircon junction, 3M KCl, S7 plug, 160 mm

DR. A. KUNTZE │ GUTES WASSER MIT SYSTEM

Zirkon® pH fluoride
... for fluorid containing media

Accessories
accessories

pH buffer solutions

The slope of pH sensors changes over the time (depending on the measuring media). We recomment a regular calibration with our buffer solutions. We offer 1000 ml packages of pH 2, pH 3.56, pH 4, pH 7, and pH 9.22, and 50 ml packages of pH 4, and pH 7.

KCl-Solution 3 mol

The KCl solution (3 mol) can be used for storage or refilling of pH-sensor. The pH-membranes need to be moistured during storage best with 3 mol KCl solution. Available in 1000 ml packaging

KCl vessel set

Vessel-set for KCl liquid-filled pH or ORP sensors. The installation is possible on a wall or in the immersion assembly GE 23/3.