



Product catalog

Sensors
valid from 01. January 2023

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Content

1.	Sensors	5
1.1	Zirkon® DIS	5
1.2	Zirkon® DIS Total	12
1.3	Zirkon® DIS Pool	17
1.4	Zirkon® pH Universal	25
1.5	Zirkon® pH Pure	34
1.6	Zirkon® pH Process	42
1.7	Zirkon® pH Process Refill	53
1.8	Zirkon® pH Fluoride	61
1.9	Zirkon® pH Coating	70
1.10	Zirkon® pH Pool	78
1.11	Zirkon® pH Process HT	85
1.12	Zirkon® pH Wide Body	93
1.13	Zirkon® Rx	103
1.14	Zirkon® Rx Process	113
1.15	Zirkon® Rx Process Refill	120
1.16	Zirkon® Rx Pool	127
1.17	Zirkon® Redox Wide Body	134
1.18	Zirkon® REF	144
1.19	Zirkon® REF Process Refill	151
1.20	Zirkon® Temperatur	158
1.21	Zirkon® Gas	164
1.22	Zirkon® Conductivity LE44 Pt	173
1.23	Zirkon® Conductivity IL 15	177
2.	Index	181

1. Sensors

1.1 Zirkon® DIS

1.1.1 Description



Art. No.: S24135130K

Order Code:
23152110



Art. No.: S24135140K

Order Code:
231612500



Art. No.: S24135230K

Order Code:
231212110



Art. No.: S24135260K

Order Code:
231712500

Zirkon® DIS are potentiostatic sensors, measuring parameter and range are defined by the connected instrument. A defined potential is applied to the measuring electrode resulting in an electrical charge. Disinfectant molecules remove part of the charge in an ORP reaction. Is the counter electrode part of the assembly you should use sensors with one electrode (ring or plate). If you use an assembly without counter electrode choose a Zirkon® DIS with two electrodes (double ring).

Benefits

- Low maintenance
- Automatic cleaning by ASR® possible
(Art. No.: S24135140K, S24135260K)
- Zero point stable

1.1.2 Applications

Disinfection



Industrial Water



Drinking Water



Process Water



Cooling Water

1.1.3 Technical data

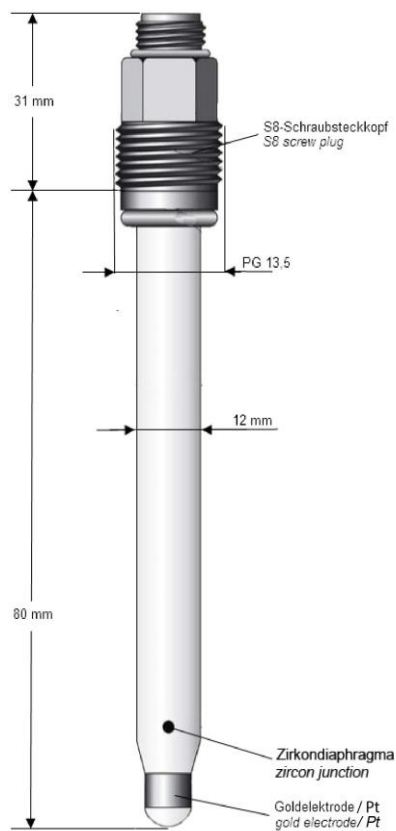
Prozessbedingungen / Ambient conditions

Druck. / <i>Pressure</i>	10 bar bei 20 °C / <i>10 bar at 20 °C / 68 °F</i>
Leitfähigkeit / <i>Conductivity</i>	>150 µS/cm, mit ASR®, > 200 µS/cm / <i>>150 µS/cm, with ASR®, > 200 µS/cm</i>
Temperatur / <i>Temperature</i>	-5.. +70 °C / <i>-5.. +70 °C / 23..158 °F</i>

Konstruktiver Aufbau / Mechanical construction

Diaphragma / <i>Junction</i>	Zirkon 1 mm / <i>Zircon 1mm</i>
Schaftmaterial / <i>Shaft material</i>	Glas / <i>Glass</i>
Schaftlänge / <i>Shaft length</i>	80 mm, 120 mm
Elektrodenmaterial / <i>Electrode material</i>	Platinring, Platinkuppe, Goldring, 2 Goldringe oder 2 Platinringe / <i>Platinum ring, Platinum cap, Gold ring, 2 Gold rings or 2 Platinum rings</i>
Bezugssystem / <i>Reference system</i>	Ag, AgCl, Tepoxgel 3mol KCl / <i>Ag, AgCl, Tepox gel 3mol KCl</i>
Mechanischer Anschluss / <i>Process connection</i>	S8-Stecker (PG 13,5 - drehbar), M12-Stecker (PG 13,5 - drehbar) / <i>S8-plug (PG 13.5 - swivel), M12-plug (PG 13.5 - swivel)</i>
Elektrischer Anschluss / <i>Electrical Connection</i>	S8 (2-polig), M12 (5-polig) / <i>S8 (2-poles), M12 (5-poles)</i>

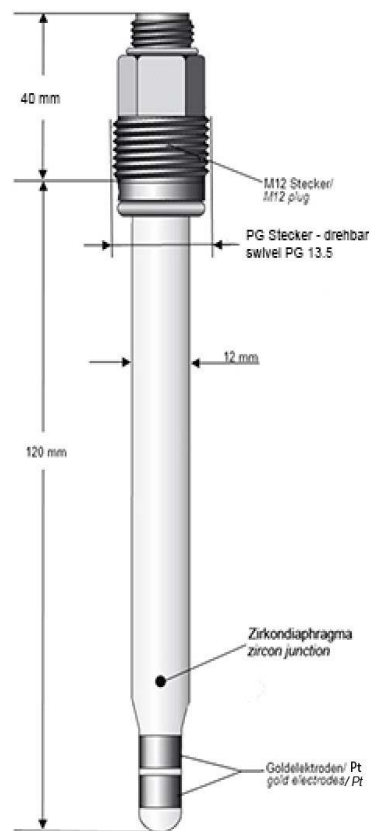
1.1.4 Mechanical drawing



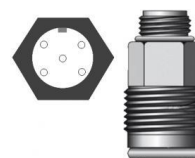
Art. No.: S24135130K / S24135230K
Order Code: 23152110 / 231212110



S8-plug



Art. No.: S24135140K / S24135260K
Order Code: 231612500 / 231712500



M12-plug

1.1.5 Order information

	Article Nr. / Article No.	Description / Description
Gruppe / Group	231	Zirkon® DIS
Elektrodenmaterial / Electrode material	2	Platinring <i>Platinum ring</i>
	5	Goldring / <i>Gold ring</i>
	6	2 Goldringe / <i>2 Gold rings</i>
	7	2 Platinringe / <i>2 Platinum rings</i>
	9	Sonderanfertigung / <i>Special</i>
Diaphragma / Junction	1	Zirkon 1 mm / <i>Zircon 1 mm</i>
	9	Sonderanfertigung / <i>Special</i>
Elektrolyt / Electrolyte	2	Tepoxgel 3mol KCl / <i>Tepox gel 3mol KCl</i>
	9	Sonderanfertigung / <i>Special</i>
Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / <i>S8-plug (swivel PG 13.5)</i>
	5	M12-Stecker (PG 13,5 - drehbar) / <i>M12-plug (swivel PG 13.5)</i>
	9	Sonderanfertigung / <i>Special</i>
	9	Sonderlänge / <i>Special length</i>
Länge / Length	0	120 mm
	1	80 mm

**Sonstiges/
Special**

0

Keine /
None

9

Sonderanfertigung /
Special



Note!

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.

Prices on request

1.1.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135130K	231512110	DIS sensor: 1 Gold ring, Zirkon junction 1 mm, Tepox gel 3mol KCl, S8-plug (swivel PG 13.5), 80 mm
S24135140K	231612500	DIS sensor: 2 Gold rings, Zirkon junction 1 mm, Tepox gel 3mol KCl, M12-plug (swivel PG 13.5), 120 mm
S24135230K	231212110	DIS sensor: 1 Platinum ring, Zirkon junction 1 mm, Tepox gel 3mol KCl, S8-plug (swivel PG 13.5), 80 mm
S24135260K	231712500	DIS sensor: 2 Platinum rings, Zirkon junction 1 mm, Tepox gel 3mol KCl, M12-plug (swivel PG 13.5), 120 mm

1.2 Zirkon® DIS Total

1.2.1 Description



Art. No.: S24135440K

Order Code: 239412500

Zirkon® DIS Total is an open potentiostatic sensor for measuring chlorine compounds. Sensors - Made in Germany.

Benefits

- No exchange of membrane
- No exchange of electrolyte
- No delicate plastic membrane
- Immune to air bubbles

1.2.2 Applications



Disinfection

Industrial Water

Drinking Water

Cooling Water

1.2.3 Technical data

Prozessbedingungen / *Ambient conditions*

Druck. / *Pressure* < 6 bar bei 20 °C /
< 6 bar at 20 °C / 68 °F

Leitfähigkeit /
Conductivity

Temperature / *Temperature* 0..+50 °C / 32..122 °F

Konstruktiver Aufbau / *Mechanical construction*

Diaphragma / *Junction* Zirkon 1 mm /
Zircon 1mm

Schaftmaterial / *Shaft material* Glas /
Glass

Schaftlänge / *Shaft length* 120 mm

Schaftdurchmesser / *Shaft diameter* 12 mm

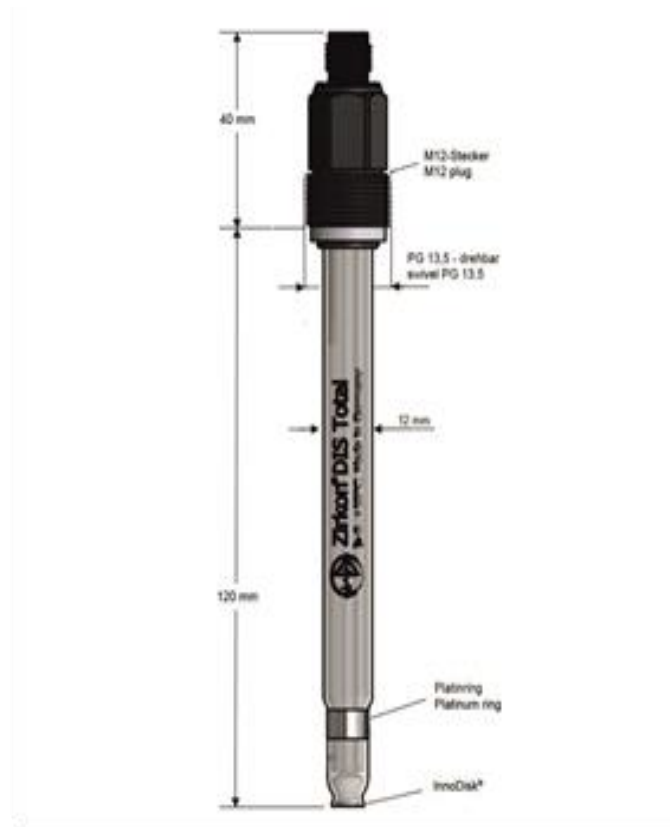
Elektrodenmaterial / *Electrode material* Platinring + Innodisk® /
Platinum ring + Innodisk®

Bezugssystem / *Reference system* Ag, AgCl, Tepoxgel 3mol KCl /
Ag, AgCl, Tepox gel 3mol KCl

Mechanischer Anschluss / *Process connection* M12-Stecker (PG 13,5 - drehbar) /
M12-plug (PG 13.5 - swivel)

Elektrischer Anschluss / *Electrical connection* 5-polig /
5-poles

1.2.4 Mechanical drawing



Art. No.: S24135440K

Order Code: 239412500

1.2.5 Order information

	Artikel Nr./ Article No.	Beschreibung/ Description
Gruppe / Group	239	Zirkon® DIS Total
Elektrodenmaterial / Electrode material	4	Platinring + Innodisk®/ <i>Platinum ring + Innodisk®</i>
Diaphragma / Junction	1	Zirkon 1 mm / <i>Zircon 1 mm</i>
	9	Sonderanfertigung / <i>Special</i>
Anschluss / Connection	2	M12-Stecker / M12-plug
	9	Sonderanfertigung / <i>Special</i>
Elektrolyt / Electrolyte	2	Tepoxgel 3mol KCl / <i>Tepox gel 3mol KCl</i>
	9	Sonderanfertigung / <i>Special</i>
Länge / Length	0	120 mm
	9	Sonderlänge / <i>Special length</i>
Sonstiges / Special	0	Keine / <i>None</i>
	9	Sonderanfertigung / <i>Special</i>

**Note!**

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

Prices on request.

1.2.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135440K	239412500	DIS Total-Sensor: InnoDisk®, Platinum ring, Zirkon junction 1 mm, Tepox gel 3mol KCl, M12-plug (swivel PG 13.5)

1.3 Zirkon® DIS Pool

1.3.1 Description



Art. No.:
S24135145K

Order Code:
237613500



Art. No.:
S24135150K

Order Code:
237813500



Art. No.:
S24135155K

Order Code:
237913990



Art. No.:
S24135156K

Order Code:
23791379K016



Art. No.:
S24135288K

Order Code:
237513110

Zirkon® DIS Pool are potentiostatic sensors, measuring parameter and range are defined by the connected instrument. A defined potential is applied to the measuring electrode resulting in an electrical charge. Disinfectant molecules remove part of the charge in an ORP reaction. Is the counter electrode part of the assembly you should use sensors with one electrode (ring or plate). If you use an assembly without counter electrode choose a sensor with two electrodes (double ring). The salt reservoir of the reference electrodes leads to a longer lifetime.

Benefits

- Low maintenance
- Automatic cleaning by ASR® or mechanically
- Zero point stable

1.3.2 Applications



Pool & Spa

1.3.3 Technical data

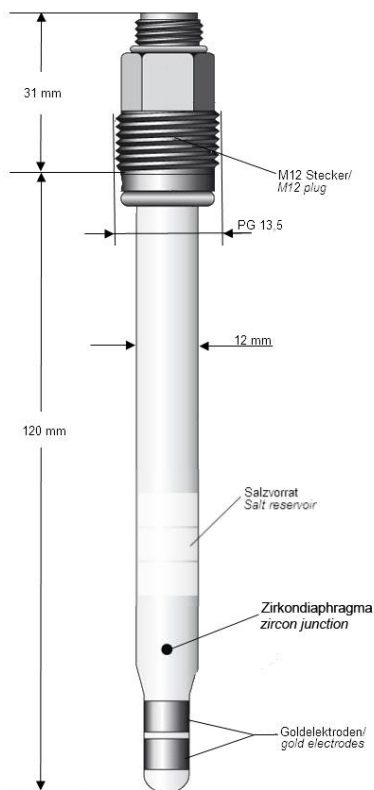
Prozessbedingungen / *Ambient conditions*

Druck / <i>Pressure</i>	< 10 bar bei 20 °C / < 10 bar at 20 °C / 68 °F
Leitfähigkeit / <i>Conductivity</i>	>150 µS/cm, mit ASR®, > 200 µS/cm / >150 µS/cm, with ASR®, > 200 µS/cm
Temperature / <i>Temperature</i>	0..+50 °C / 32..122 °F

Konstruktiver Aufbau / *Mechanical construction*

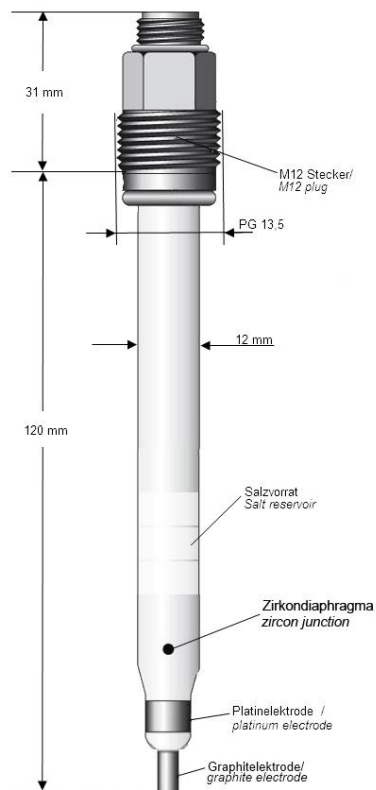
Diaphragma / <i>Junction</i>	Zirkon 1mm / <i>Zircon 1mm</i>
Schaftmaterial / <i>Shaft material</i>	Glas / <i>Glass</i>
Schaftlänge / <i>Shaft length</i>	80 mm / 120 mm / 155 mm / 170 mm
Schaftdurchmesser / <i>Shaft diameter</i>	12 mm
Elektrodenmaterial / <i>Electrode material</i>	Platinring, Platinkuppe, Goldring, 2 Goldringe oder 2 Platinringe, Grafitstab / <i>Platinum ring, Platinum cap, Gold ring, 2 Goldrings or 2 Platinum rings, Graphite pin</i>
Bezugssystem / <i>Reference system</i>	Ag, AgCl, Tepoxgel 3mol KCl / <i>Ag / AgCl, Tepox gel 3mol KCl</i>
Mechanischer Anschluss / <i>Process connection</i>	S8-Stecker (PG 13,5 - drehbar), M12-Stecker (PG 13,5 - drehbar), Flansch (PG 13,5 – drehbar) / <i>S8-plug (PG 13.5 - swivel), M12-plug (PG 13.5 - swivel), male Socket ((PG 13.5 - swivel)</i>
Elektrischer Anschluss / <i>Electrical connection</i>	2-polig / 3-polig / 5-polig / Festkabel <i>2-poles / 3-poles / 5-poles / fixed pflug</i>

1.3.4 Mechanical drawing



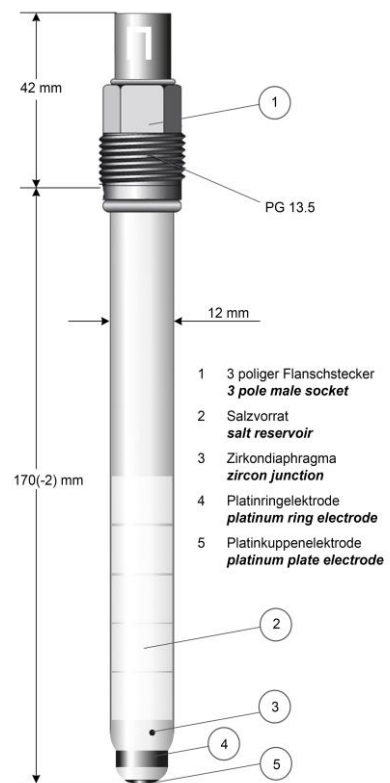
Art. No.: S24134145K

Order code: 237613500



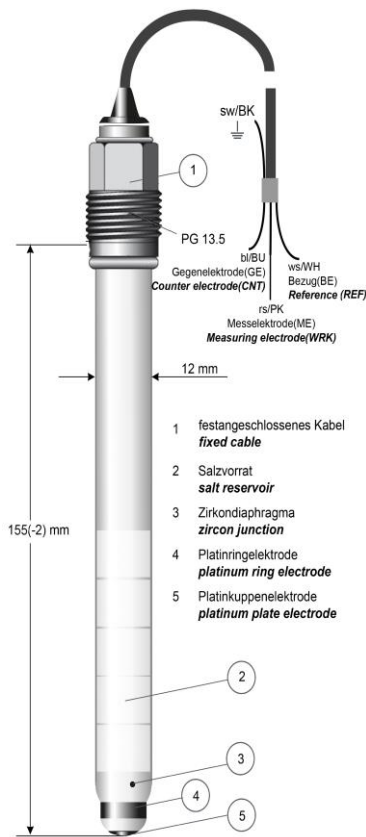
Art. No.: S24135150K

Order code: 237813500



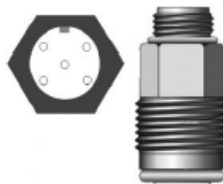
Art. No.: S24135155K

Order code: 237913990

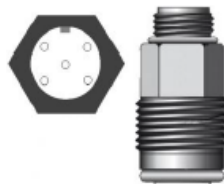


Art. No.: S24135156K

Order code: 23791379K016



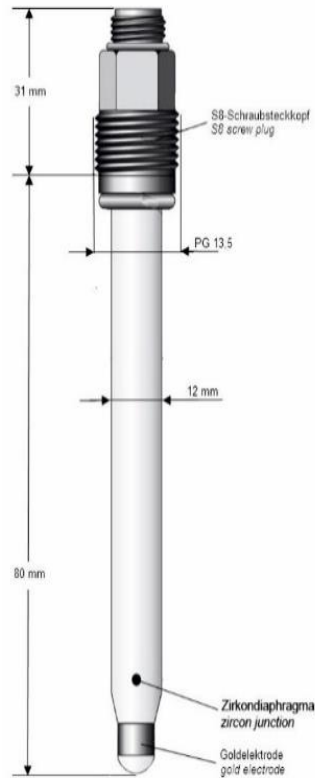
S8-plug



M12-plug



Male-socket



Art. No.: S24135288K

Order code: 237513110

1.3.5 Order information

	Artikel Nr./ Article No.	Beschreibung/ Description
Gruppe / Group	237	Zirkon® DIS Pool
Elektrodenmaterial / Electroden material	2	Platinring / <i>Platinum ring</i>
	5	Goldring / <i>Gold ring</i>
	6	2 Goldringe / <i>2 Gold ring</i>
	7	2 Platinringe / <i>2 Platinum ring</i>
	8	Platinring - Graphitstift / <i>Platinum ring- Graphite pin</i>
	9	Sonderanfertigung / <i>Special</i>
Diaphragma / Junction	0	Kein / <i>None</i>
	1	Zirkon 1 mm / <i>Zircon 1 mm</i>
	9	Sonderanfertigung / <i>Special</i>
Elektrolyt / Electrolyte	0	Kein / <i>None</i>
	3	Tepoxgel - gesättigt KCl mit Salzvorrat / <i>Tepox gel - saturated KCl with salt resevoir</i>
	9	Sonderanfertigung / <i>Special</i>

Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / <i>S8-plug (swivel PG 13.5)</i>
	5	M12-Stecker (PG 13,5 - drehbar) / <i>M12-plug (swivel PG 13.5)</i>
	7	Festangeschlossenes Kabel / <i>Fixed cable</i>
	9	Sonderanfertigung / <i>Special</i>
Länge / Length	0	120 mm
	1	80 mm
	9	Sonderlänge / <i>Special length</i>
Sonstiges / Special	0	Kein / None
	K	Kabellänge / Cable length
		Beispiel: 1 Meter = K01, 10 Meter = K10 Example: 1 m =K01, 10 m = K10
	9	Sonderanfertigung / <i>Special</i>

**Notes!**

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.

Prices on request.

1.3.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135145K	237613500	DIS-sensor: 2 gold rings, Zircon junction 1 mm, saturated KCL, M12-plug (swivel PG 13.5), 120 mm
S24135150K	237813500	DIS-sensor for brine water: Zircon junction 1 mm, Platinum ring, Graphit pin, saturated. KCl, M12-plug (swivel PG 13.5), 120 mm
S24135155K	237913990	DIS-sensor: 1 Platinum ring and plate, Zircon junction 1 mm, saturated KCl, male socket (swivel PG13.5), 170 mm
S24135156K	23791379K016	DIS-Sensor: 1 Platinum ring and plate, Zircon junction 1 mm, saturated. KCl, 1.6 m fixed cable (swivel PG 13.5), 155 mm
S24135288K	237513110	DIS-sensor: 1 Gold ring, Zirkon junction 1 mm, saturated. KCl, S8-plug (swivel PG 13.5), 80 mm

1.4 Zirkon® pH Universal

1.4.1 Description



Art. No.:S24131100K

Order Code: 201012320



Art. No.: S24131110K

Order Code: 201012100



Art. No.:S24132111K

Order Code: 201112600



Art. No.: S24132650K

Order Code: 201012103



Art. No.: S24132665K

Order Code: 201912703K01DIN/Banane

The sensor of the Zirkon® pH series are highly sophisticated sensors with a high value for money ratio. They are used in many applications e.g. industrial, process and waste water. We use our high performance AH glass with low alkaline error and a broad temperature range.

We use a high class zircon junction which increases the sensor life expectancy and our low maintenance Tepox gel. As reference system we use a cartridge system which results for a constant measurement especially in applications with high temperature fluctuations.

Benefits

- Low maintenance by gel filling
- High precision by use of high alkaline high temperature glass
- Made in Germany

1.4.2 Applications



Industrial Water



Drinking Water



Process Water



Cooling Water



Waste Water
Treatment

1.4.3 Technical data

Messparameter / Measuring parameter

pH-Wert / pH 0.. 14
pH-value

Prozessbedingungen / Ambient conditions

Druck. / PG-Stecker: < 2 bar bei 20 °C
Pressure Kunststoffschacht: < 1 bar bei 20 °C
PG 13,5 lose: < 1 bar bei 20 °C /

PG-plug: < 2 bar at 20 °C / 68 °F
Resin-shaft: < 1 bar at 20 °C / 68 °F
PG 13.5 loose: < 1 bar at 20 °C / 68 °F

Leitfähigkeit / >150 µS/cm
Conductivity

Temperature / -5.. +70 °C / 23..158 °F
Temperature

Konstruktiver Aufbau / Mechanical construction

Diaphragma / Zirkon 1 mm /
Junction Zircon 1 mm

Schaftmaterial / Glas, Kunststoff /
Shaft material Glass, resin

Schaftlänge / 120 mm, 160 mm, 225 mm
Shaft length

Elektrodenmaterial / AH-Glas-Kugel /
Electrode material AH Glass-ball

Bezugssystem / Ag, AgCl, Tepoxgel 3mol KCl /
Reference system Ag, AgCl, Tepox gel 3mol KCl

Innenpuffer / pH 7
Internal buffer

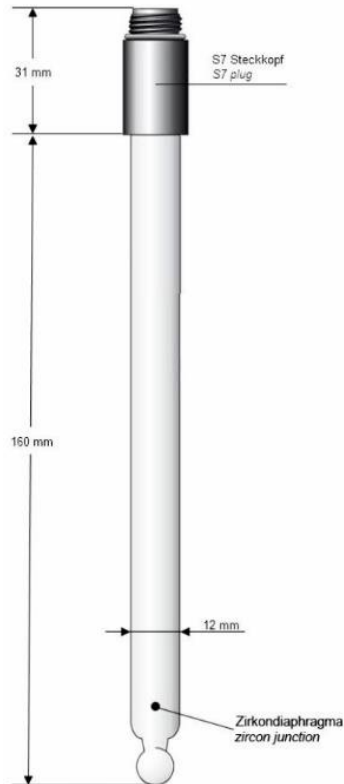
Mechanischer Anschluss / S8-Stecker (PG 13,5 - drehbar), S7-Stecker, Variopin
Process connection (PG 13,5 - drehbar), festangeschlossenes Kabel /

8-plug (swivel PG 13.5), S7-plug, Variopin (swivel PG 13.5),
fixed cable

Elektrischer Anschluss / 2- oder 8-polig/
Electrical connection 2- or 8-poles

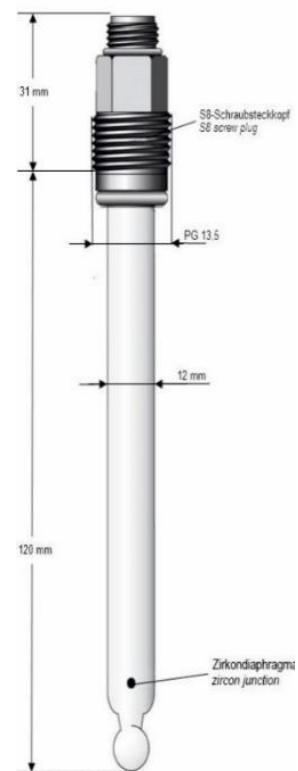
Temperatursensor / Kein, Pt 100, Pt 1000 /
Temperature sensor None, Pt 100, Pt 1000

1.4.4 Mechanical drawing



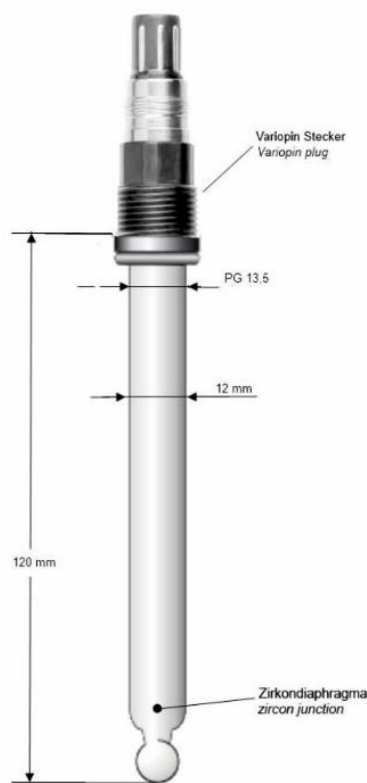
Art. No.: S24131100K

Order Code: 201012320



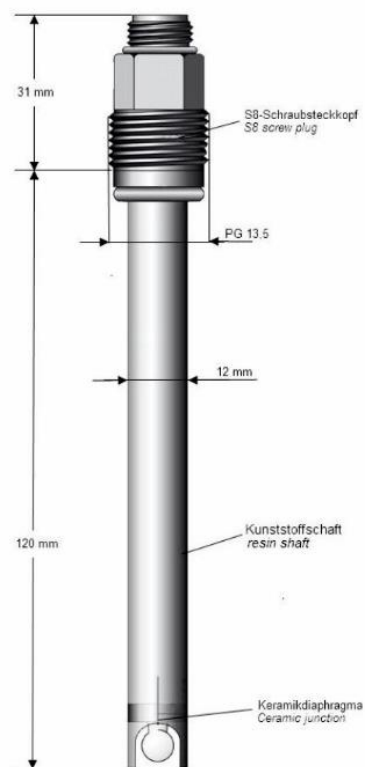
Art. No.: S24131110K

Order Code: 201012100



Art. No.: S24132111K

Order Code: 201112600



Art. No.: S24132650K

Order Code: 201012103



S7-plug



S8-plug



Variopin

1.4.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	201	Zirkon® pH Universal
Temperatursensor / Temperature sensor	0	Kein / None
	1	Pt 100
	2	Pt 1000
	9	Sonderanfertigung / Special
Diaphragma / Junction	1	Zirkon 1 mm / Zircon 1 mm
	9	Sonderanfertigung / Special
Elektrolyt / Elektrolyte	2	Texogel 3mol KCl / Tepox gel 3mol KCl
	9	Sonderanfertigung / 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 (PG 13,5 - drehbar) / VP-Variopin-plug (swivel PG 13.5)
	7	Festangeschlossenes Kabel / Fixed cable
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / Special length

**Sonstiges /
Special**

0	Kein / <i>None</i>
3	Kunststoffschaft / <i>Resin-shaft</i>
K	Kabellänge / <i>Cable length</i>
	Beispiel: 1 Meter = K01, 10 Meter = K10 <i>Example: 1 m = K01, 10 m = K10</i>
9	Sonderanfertigung / <i>Special</i>



Note!

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.

Price on request.

1.4.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24131100K	201012320	pH sensor: Zircon junction 1mm, Tepox gel 3mol KCl, S7-plug , 160 mm
S24131110K	201012100	pH sensor: Zircon junction 1 mm, Tepox gel 3mol KCl, S8-plug (swivel PG 13.5), 120 mm
S24132111K	201112600	pH sensor: Zircon junction 1 mm, Pt 100, Tepox gel 3mol KCl, Variopin plug (swivel PG 13.5), 120 mm
S24132650K	201012103	pH sensor: Zircon junction 1mm, Tepox gel 3mol KCl, S8-plug (swivel PG13.5), 120 mm resin shaft

1.5 Zirkon® pH Pure

1.5.1 Description



Art. No.: S24132010K

Order Code: 202061320



Art. No.: S24132061K

Order Code: 202041104



Art. No.: S24132070K

Order Code: 202041320

The sensors of the Zirkon® pH Pure are highly sophisticated sensors with a high value for money ratio. They are used in ion poor media. We use our high performance AH glass with low alkaline error and a broad temperature range. We use different materials like zircon or glass sleeve as junction. The junction and the electrolyte are determine the salt output and therefore the measurement quality in ion poor media. As electrolyte we use our 3M KCl - this is refillable. As reference system we use a cartridge system which results in a constant measurement especially in applications with high temperature fluctuations.

1.5.2 Applications



Industrial Water



Drinking Water



Process Water



Cooling Water



Waste Water
Treatment

1.5.3 Technical data

Messparameter / Measuring parameter

pH-Wert / *pH-value* pH 0.. 14

Prozessbedingungen / Ambient conditions

Druck / Pressure	S7: < 1 bar drucklos PG 13,5 lose: < 1 bar drucklos KCI Druckaufsatz: <6 bar bei 20 °C Glasschliff : < 1 bar drucklos /
	<i>S7: bar pressureless PG 13.5 loose: < 1 bar pressureless KCI pressure attachment: < 6 bar at 20 °C / 68 °F Glass sleeve: <1 bar pressureless</i>
Leitfähigkeit / Conductivity	3 x Zircon 1 mm: > 50 µS/cm Glassschliff: > 20 µS/cm/
	<i>3 x Zircon 1 mm: > 50 µS/cm Glass sleeve: > 20 µS/cm</i>
Temperatur / Temperature	-5.. +70 °C / 23..158 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma / <i>Junction</i>	3x Zirkon 1 mm, Glasschliff / <i>3x Zircon 1mm, glass sleeve</i>
Schaftmaterial / <i>Shaft material</i>	Glas / <i>Glass</i>
Schaftlänge / <i>Shaft length</i>	120 mm, 160 mm, 225 mm
Elektrodenmaterial / <i>Electrode material</i>	AH-Glas / <i>AH-Glass</i>
Bezugssystem / <i>Reference system</i>	Ag, AgCl, 3mol KCl-flüssig / <i>Ag, AgCl, 3mol KCl-liquid</i>
Innenpuffer / <i>Internal buffer</i>	pH 7
Mechanischer Anschluss / <i>Process connection</i>	S8-Stecker (PG 13,5 - drehbar), S7-Stecker, Variopin (PG 13,5 - drehbar, festangeschlossenes Kabel / <i>S8-plug (swivel PG 13.5), S7-plug, Variopin (swivel PG 13.5), fixed cable</i>

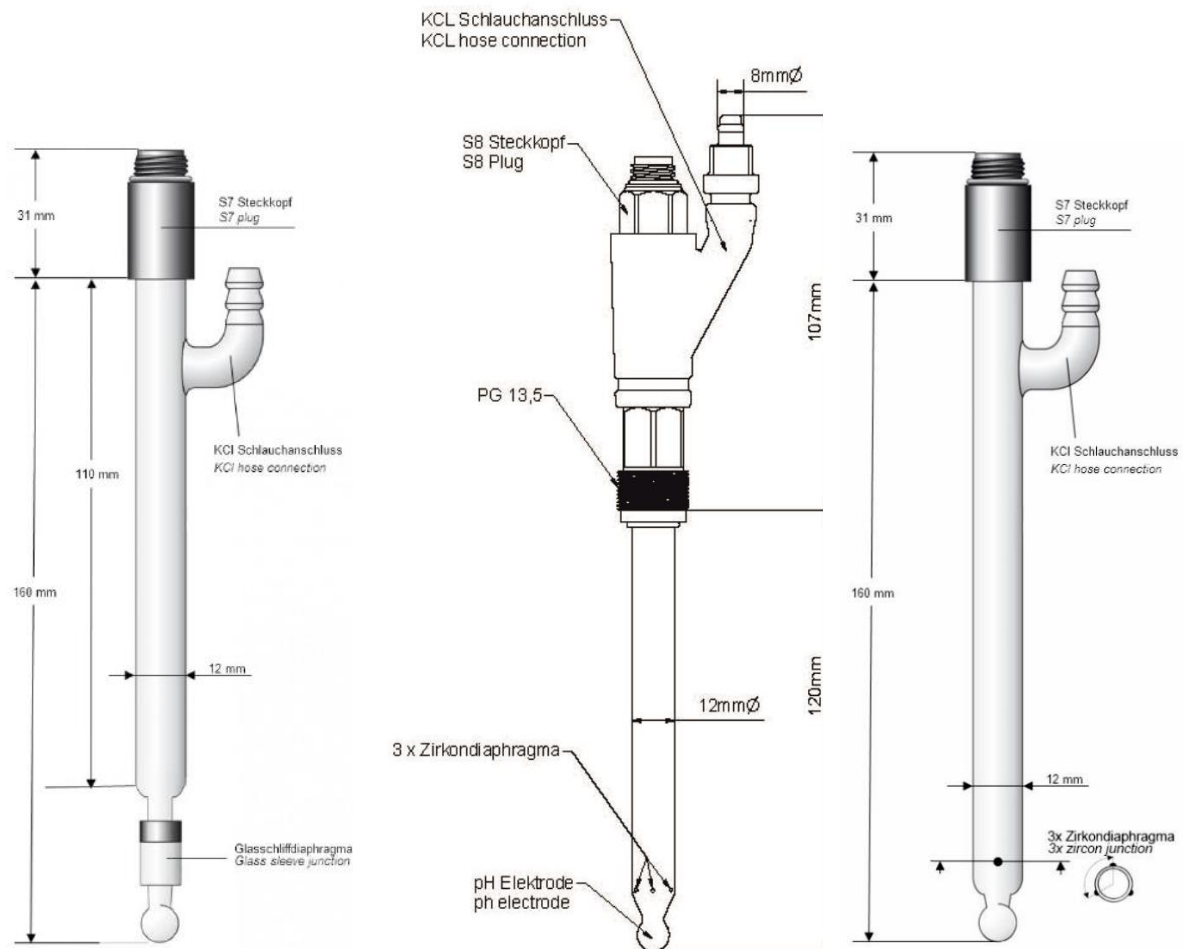
Elektrischer Anschluss /
Electrical connection

2- order 8- polig /
2- or 8- poles

Temperatursensor /
Temperature sensor

Kein, Pt 100, Pt 1000 /
None, Pt 100, Pt 1000

1.5.4 Mechanical drawing



Art. No.: S24132010K

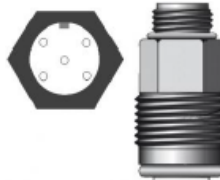
Order Code: 202061320



S7-plug

Art. No.: S24132061K

Order Code: 202041104



S8-plug

Art. No.: S24132070K

Order Code: 202041320



Variopin

1.5.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	202	Zirkon® pH Pure
Temperatursensor / Temperature sensor	0	Kein / None
	1	Pt 100
	2	Pt 1000
	9	Sonderanfertigung / Special
Diaphragma / Junction	4	Zirkon 3 x 1 mm / Zircon 3 x 1 mm
	6	Glasschliff (nur KCl flüssig) Glass sleeve (only KCl liquid)
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	1	3mol KCl-flüssig / 3mol KCl-liquid
	9	Sonderanfertigung / Special
Anschluss / Connection	0	Kein / None
	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	3	S7 Stecker / S7 plug
	6	VP-Variopin-Stecker (PG 13,5 - drehbar) / VP-Variopin-pflug (swivel PG 13.5)
	7	Festangeschlossenes Kabel / Fixed cable
	9	Sonderanfertigung / Special

Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / <i>Special length</i>
Sonstige / Special	0	Kein / <i>None</i>
	4	KCI-Druckaufsatz / <i>KCI-Pressure attachment</i>
	K	Kabellänge / <i>Cable length</i>
	9	Sonderanfertigung / <i>Special</i>

**Note!**

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.

Price on request.

1.5.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S2432010K	202061320	pH sensor for low-ion media, shaft length: 160 mm, S7 plug, Glass sleeve junction
24132070K	202041320	pH sensor for low-ion media, shaft length: 160 mm, S7 plug, Zirkon junction 3 x 1 mm

1.6 Zirkon® pH Process

1.6.1 Description



Art. No.: S24132120K

Order Code: 203072100



Art. No.: S24132121K

Order Code: 203172600



Art. No.: S24132140K

Order Code: 203032320



Art. No.: S24132150K

Order Code: 203032100



Art. No.: S24132810K

Order Code: 203085100

The sensors of the Zirkon® pH Process series are highly sophisticated sensors with a high value for money ratio. They are used in applications like process and waste water. We use our high performance AH glass with low alkaline error and a broad temperature range. We use different materials like ceramic, platinum or PTFE as junction. The junction is among other things responsible for the salt output and the dirt resistance. As electrolyte we use our low maintenance Topax gel. As reference system we use a cartridge system which results in a constant measurement even in applications with high temperature fluctuations. Sensors are Made in Germany.

Benefits

- Low maintenance by gel or solid filling
- Dirt resistant by premium-quality junctions
- Made in Germany

1.6.2 Applications



Industrial Water



Process Water



Cooling Water



Waste Water
Treatment

1.6.3 Technical data

Messparameter / Measuring parameter

pH-Wert /
pH-value pH 0.. 14

Prozessbedingungen / Ambient conditions

Druck /	PG-Stecker: < 10 bar bei 20 °C
Pressure	PG-Stecker 13,5 lose: < 1 bar bei 20 °C
	PTFE: < 10 bar bei 20 °C
	Loch: < 1 bar drucklos
	Platin: < 2 bar bei 20 °C /
	 PG-Plug: < 10 bar at 20 °C / 68 °F
	PG-Plug 13.5 loose: < 1 bar at 20 °C / 68 °F
	PTFE: < 10 bar at 20 °C / 68 °F
	Hole: < 1 bar pressureless
	Platinum: < 2 bar bei 20 °C / 68 °F

Leitfähigkeit /
Conductivity 150 µS/cm

Temperatur /
Temperature -5.. +70 °C / 23.. 158 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma / Junction	Platin, PTFE, Loch, Zirkon 1 mm / <i>Platinum, PTFE, Hole, Zircon 1 mm</i>
--------------------------	---

Schaftmaterial / Glas /
Shaft material *Glass*

Schaftlänge /	120 mm, 160 mm, 220 mm (Doppelkammer), 225 mm /
Shaft length	120 mm, 160 mm, 220 mm (double chamber), 225 mm

Elektrodenmaterial / <i>Electrode material</i>	AH-Glas/ <i>AH-Glass</i>
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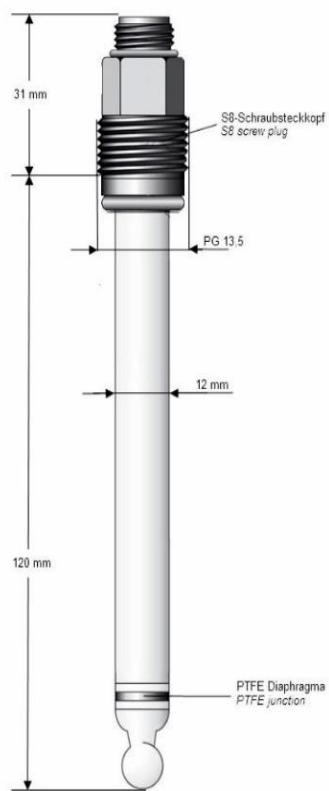
Bezugssystem /
Reference system

Ag / AgCl / Tepoxgel 3mol KCl, Ag / AgCl / Festelektrolyt /
3mol KCl flüssig /

Ag / AgCl / Tepox gel 3mol KCl, Ag / AgCl / Solid electrolyte,
3mol KCl liquid

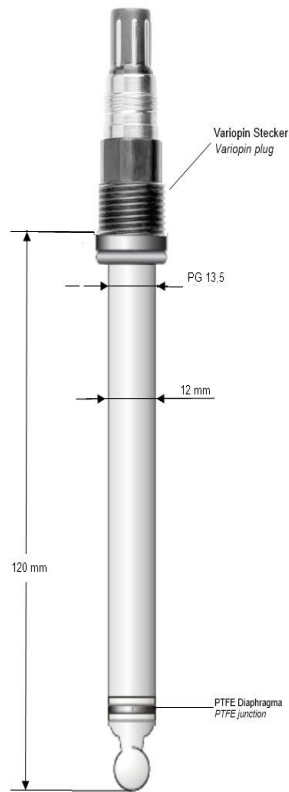
Konstruktiver Aufbau / *Mechanical construction*

Mechanischer Anschluss / <i>Process connection</i>	S8-Stecker (PG 13,5 - drehbar), S7-Stecker, Variopin (PG 13,5 - drehbar), festangeschlossenes Kabel / <i>S8-plug (swivel PG 13.5), S7-plug, Variopin (swivel PG 13.5), fixed cable</i>
Elektrischer Anschluss / <i>Electrical connection</i>	2- oder 8-polig / <i>2- or 8-poles</i>
Temperatursensor / <i>Temperature sensor</i>	Kein, Pt 100, Pt 1000 / <i>None, Pt 100, Pt 1000</i>

1.6.4 Mechanical drawing

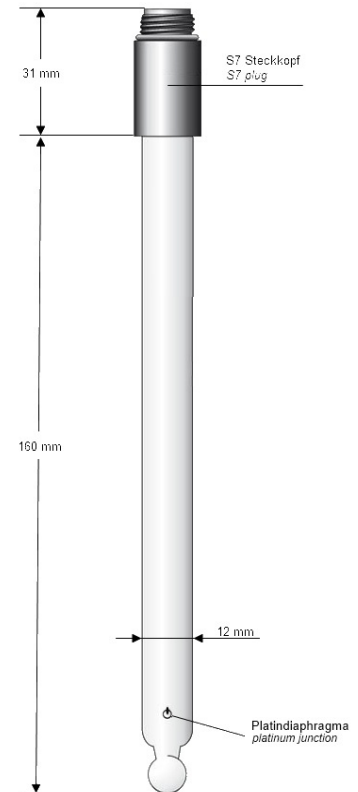
Art. No.: S24132120K

Order Code: 203072100



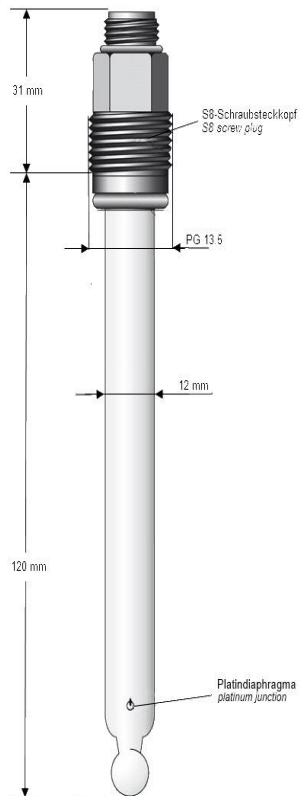
Art. No.: S24132121K

Order Code: 203172600



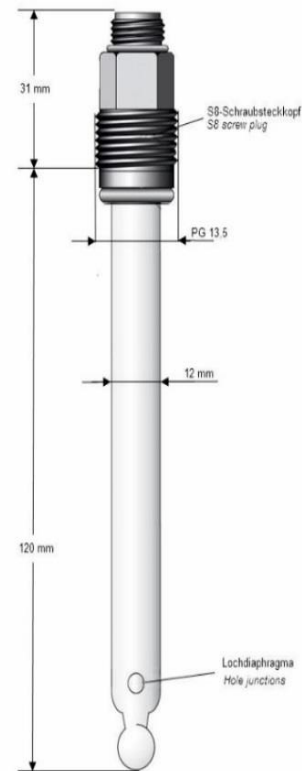
Art. No.: S24132140K

Order Code: 203032320



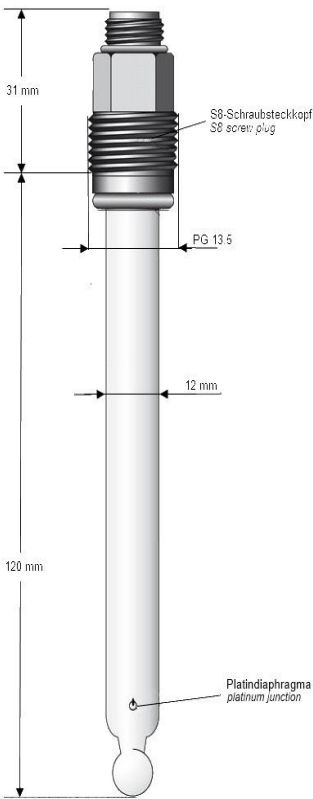
Art. No.: S24132150K

Order Code: 203032100



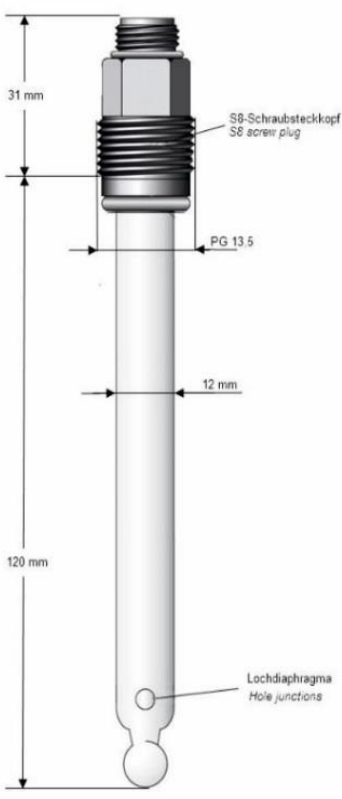
Art. No.: S24132810K

Order Code: 203085100



Art. No.: S24132150K

Order Code: 203032100

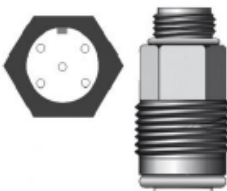


Art. No.: S24132810K

Order Code: 203085100



S7-plug



S8-plug



Variopin



Zircon



PTFE



Hole



Platinum

1.6.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	203	Zirkon® pH Process
Temperatursensor / Temperature sensor	0	Kein / None
	1	Pt 100
	2	Pt 1000
	9	Sonderanfertigung / Special
Diaphragma / Junction	1	Zirkon 1 mm / Zircon 1mm
	3	Platin / Platinum
	7	PTFE
	8	Loch / Hole
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	2	Tepoxgel 3mol KCl / Tepox gel 3mol KCl
	5	Festelektrolyt / Solide electrolyte
	3	Tepoxgel - gestättigt KCl mit Salzvorrat / Tepox gel - saturated KCl with salt reservoir
	8	Doppelkammer (3mol KCl - flüssig) / Double chambre (3mol KCl - liquid)
	9	Sonderanfertigung / Special

Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	2	S8 (PG 13,5) für aggressive Medien / S8 (PG 13.5) plug for aggressive media
	3	S7-Stecker / S7-plug
	6	VP-Variopin-Stecker (PG 13,5 - drehbar) / VP-Variopin-plug (swivel PG 13.5)
	7	Festangeschlossenes Kabel / Fixed cable
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	2	160 mm
	3	240 mm
	4	225 mm
	9	Sonderlänge / Special length
Sonstiges / Special	0	Kein / None
	K	Kabellänge / Cable length
		Beispiel: 1 Meter = K01, 10 Meter = K10 Example: 1 m = K01, 10 m = K10
	9	Sonderanfertigung / Special

**Note!**

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.

Price on request.

1.6.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24131117K	203285600	pH sensor: 2x hole junction, solid gel SPMA, Variopin plug (swivel PG 13.5), 120 mm, PT1000
S24132120K	203072100	pH sensor: PTFE junction, Tepox gel 3mol KCl /, S8 plug (swivel PG 13.5), 120 mm
S24132121K	203172600	pH sensor: Pt100, PTFE junction, Tepox gel 3mol KCl /, Variopin (swivel PG 13.5), 120 mm
S24132140K	203032320	pH sensor: Platinum junction, Tepox gel 3mol KCl /, S7-plug, 160 mm
S24132150K	203032100	pH sensor: Platinum junction, Tepox gel 3mol KCl, S8-plug (swivel PG13.5), 120 mm
S24132810K	203085100	pH sensor: Hole junction, solid electrolyte, S8-plug (swivel plug), 120 mm

1.7 Zirkon® pH Process Refill

1.7.1 Description



Art. No.: S24132040K

Order Code: 204011320



Art. No.: S24132050K

Order Code: 204031320

The sensors of the Zirkon® pH Process series are highly sophisticated sensors with a high value for money ratio. They are used in applications like process and waste water. We use our high performance AH glass with low alkaline error and a broad temperature range. We use different materials like zircon, platinum or PTFE as junction. The junction and the electrolyte determine the salt output and the dirt resistance. As electrolyte we use our 3M KCl - this is refillable. As reference system we use a cartridge system which results in a constant measurement especially in applications with high temperature fluctuations. Sensores – Made in Germany.

Benefits

- Long life expectancy by refillable reference electrode
- High precision by use of high alkaline high temperature glass

1.7.2 Applications



Industrial Water



Drinking Water



Process Water



Cooling Water



Waste Water
Treatment

1.7.3 Technical data

Messparameter / Measuring parameter

pH-Wert / *pH-value* pH 0.. 14

Prozessbedingungen / Ambient conditions

Druck /	PG-Stecker: < 2 bar bei 20 °C
Pressure	PG-Stecker 13.5 lose: < 1 bar bei 20 °C
	KCL-Druckaufsatz: < 6 bar at 20 °C /
	<i>PG-plug: < 2 bar at 20 °C / 68 °F</i>
	<i>PG 13.5 loose: < 1 bar at 20 °C / 68 °F</i>
	<i>KCL pressure attachment: < 6 bar at 20 °C / 68 °F</i>

Leitfähigkeit /
Conductivity 150 $\mu\text{S}/\text{cm}$

Temperatur /
Temperature -5.. +100 °C / 23.. 212 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma / <i>Junction</i>	Zirkon 1 mm, Platin, PTFE / <i>Zircon 1 mm, Platinum, PTFE</i>
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Schaftmaterial / Glas /
Shaft material *Glass*

Schaftlänge / Shaft length	120 mm, 160 mm, 220 mm (Doppelkammer), 225 mm / 120 mm, 160 mm, 220 mm (double chamber), 225 mm
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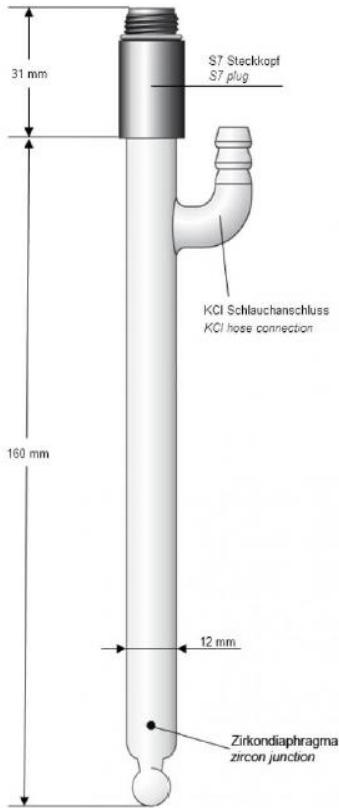
Elektrodenmaterial / <i>Electrode material</i>	AH-Glas / <i>AH-Glass</i>
---	------------------------------

Bezugssystem / Reference system	Ag / AgCl / Tepox gel 3mol KCl / Ag / AgCl / Festelektrolyt, Ag / AgCl / Tepoxgel 3mol KCl flüssig / Ag / AgCl / Tepox gel 3mol KCl / Ag / AgCl / Solid electrolyte, Ag / AgCl / Tepox gel 3mol KCl liquid
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Konstruktiver Aufbau / *Mechanical construction*

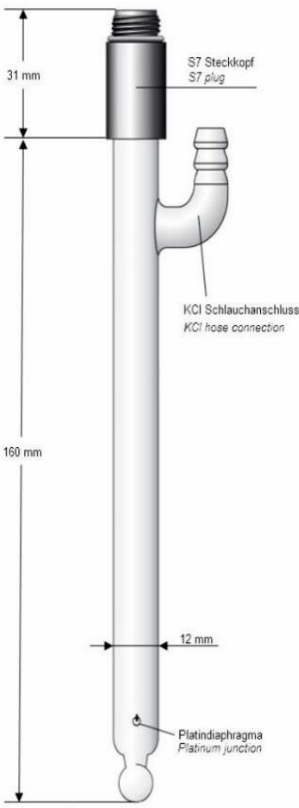
Mechanischer Anschluss / <i>Process connection</i>	S8-Stecker (PG 13,5 - drehbar), S7-Stecker, Variopin (PG 13,5 - drehbar), festangeschlossenes Kabel / <i>S8-plug (swivel PG 13.5), S7-plug, Variopin (swivel PG 13.5), fixed cable</i>
Elektrischer Anschluss / <i>Electrical connection</i>	2- oder 8-polig / <i>2- or 8-poles</i>
Temperatursensor / <i>Temperature sensor</i>	Kein, Pt 100, Pt 1000 / <i>None, Pt 100, Pt 1000</i>

1.7.4 Mechanical drawing



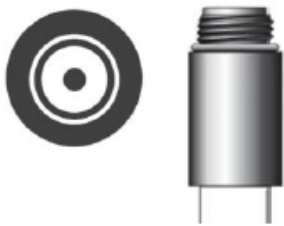
Art. No.: S24132040K

Order Code: 204011320



Art. No.: S24132050K

Order Code: 204031320



S7-plug



PTFE



Pressure attachment with S8-plug



Zircon



Variopin



Platinum

1.7.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	204	Zirkon® pH Process Refill
Temperatursensor / Temperature sensor	0	Kein / None
	9	Sonderanfertigung / Special
Diaphragma / Junction	1	Zirkon 1 mm / Zircon 1 mm
	3	Platin / Platinum
	7	PTFE
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	1	3mol KCl flüssig 3mol KCl liquid
	7	Doppelkammer (3mol KCl flüssig - 3mol KCl flüssig) / Double chamber (3mol KCl liquid - 3mol KCl liquid)
	9	Sonderanfertigung / 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 (PG 13,5 - drehbar) / VP-Variopin-plug (swivel PG 13.5)
	7	Festangeschlossenes Kabel / Fixed cable
	9	Sonderanfertigung / Special

Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / <i>Special length</i>
Sonstiges / Special	0	Kein / <i>None</i>
	1	2 Innenpuffer/ <i>2 Internal buffer</i>
	2	K ₂ SO ₄ als Brückenelektrolyt / <i>K₂SO₄ as bridge electrolyte</i>
	4	KCl-Druckaufsatz / <i>KCl Pressure attachment</i>
	K	Kabellänge / <i>Cable length</i>
		Beispiel: 1 Meter = K01, 10 Meter = K10 <i>Example:</i> 1 Meter = K01, 10 meter = K10
	9	Sonderanfertigung / <i>Special</i>

**Note!**

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.

Price on request.

1.7.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24132040K	204011320	Zirkon® pH Process Refill, shaft length: 160 mm, Ceramic junction, S7-plug
S24132050K	204031320	Zirkon® pH Process Refill, shaft length: 160 mm, Platinum junction, S7-plug

1.8 Zirkon® pH Fluoride

1.8.1 Description



Art. No.: S24132300K

Order Code: 205011320



Art. No.:S24132420K

Order Code: 205072100



Art. No. S24132400K

Order Code: 205012320

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 semiconductor industry. The sensor design such as like reference electrode and junction are mainly determined by the water characteristics.

Benefits

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

1.8.2 Applications



Industrial Water



Fluoride
Containing
Media

1.8.3 Technical data

Messparameter / Measuring parameter

pH-Wert / pH-value pH 1.. 11

Prozessbedingungen / Ambient conditions

Druck / Pressure PG-Stecker: < 10 bar bei 20 °C
 PG 13.5 lose: < 1 bar bei 20 °C
 KCl-Druckaufsatz: < 6 bar bei 20 °C
 PTFE: < 10 bar bei 20 °C
 Loch: < 1 bar drucklos
 Zirkon < 2 bar bei 20 °C
 Platin: < 2 bar bei 20 °C /

*PG- plug: < 10 bar at 20 °C / 68 °F
 PG 13.5 loose: < 1 bar at 20 °C / 68 °F
 KCl-pressure attachment: < 6 bar bei 20 °C / 68 °F
 PTFE: < 10 bar at 20 °C / 68 °F
 Hole. < 1 bar pressureless
 Zircon: < 2 bar at 20 °C / 68 °F
 Platinum. < 2 bar at 20 °C / 68 °F*

Leitfähigkeit / Conductivity 3M KCl: > 50 µS/cm
 Tepoxgel: > 150 µS/cm

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

Temperatur / Temperature 0.. +60 °C / 32.. 140 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma / Junction Zirkon 1 mm, PTFE; Platn, Loch /
 Zircon 1 mm, PTFE, Platinum, Hole

Schaftmaterial / Shaft material Glas /
 Glass

Schaftlänge / Shaft length 120 mm, 160 mm, 220 mm (Doppelkammer), 225 mm /
 120 mm, 160 mm, 220 mm (double chamber), 225 mm

Elektrodenmaterial / Electrode material S-Glas-Kugel /
 S-Glass-ball

Bezugssystem / Reference system Ag / AgCl / Tepoxgel 3mol KCl / AgAgCl / Festelektrolyt /
 Ag / AgCl / Tepox gel 3mol KCl / AgAgCl / Solid electrolyte

Innenpuffer / Internal buffer pH 7

Mechanischer Anschluss /
Process connection

S8-Stecker (PG 13,5 - drehbar), S7-Stecker, Variopin
(PG 13,5 - drehbar), festangeschlossenes Kabel /

*S8-plug (swivel PG 13.5), S7-plug, Variopin
(swivel PG 13.5), fixed cable*

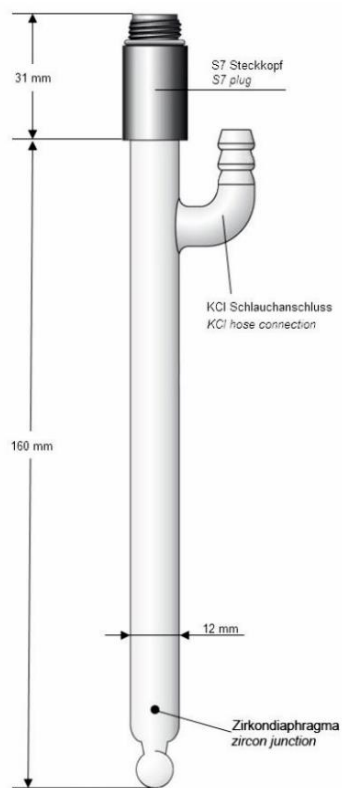
Elektrischer Anschluss /
Electrical connection

2- oder 8-polig /
2- or 8- poles

Temperatursensor /
Temperature sensor

Kein, Pt 100, Pt 1000 /
None, Pt 100, Pt 1000

1.8.4 Mechanical drawing



Art. No.: S24132300K

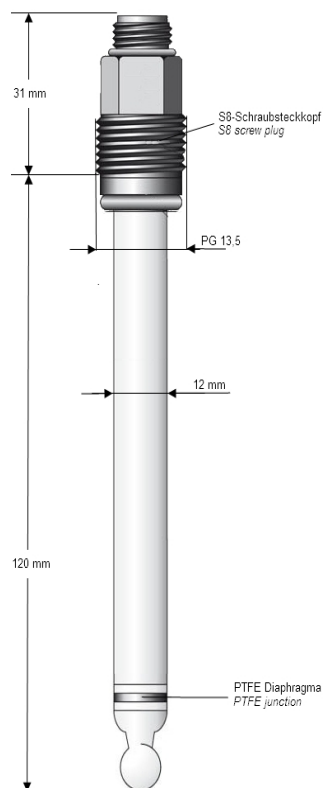
Order Code: 205011320



S7-plug

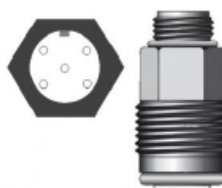


PTFE

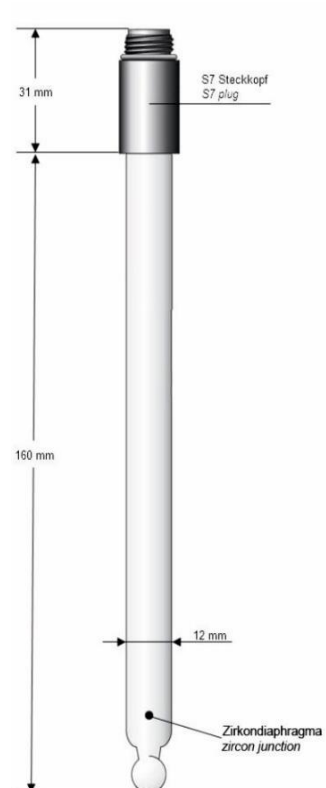


Art. No.: S24132420K

Order Code: 205072100



S8-plug



Art. No.: S24132400K

Order Code: 205012320



Variopin



Hole

1.8.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	205	Zirkon® pH Fluoride
Temperatursensor / Temperature sensor	0	Kein / None
	1	Pt 100
	2	Pt 1000
	9	Sonderanfertigung / Special
Diaphragma / Junction	1	Zirkon 1 mm / Zircon 1 mm
	3	Platin / Platinum
	7	PTFE
	8	Loch / Hole
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	1	3mol KCl flüssig / 3mol KCl liquid
	2	Tepoxgel 3mol KCl / Tepox gel 3mol KCl
	3	Tepoxgel - gesättigt KCl mit Salzvorrat/ Tepox gel - saturated KCl with salt resevoir
	9	Sonderanfertigung / Special

Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / <i>S8-plug (swivel PG 13.5)</i>
	3	S7-Stecker / <i>S7-plug</i>
	6	VP Variopin Stecker (PG 13,5 - drehbar) / VP Variopin plug (<i>swivel PG 13.5</i>)
	7	Festangeschlossenes Kabel / <i>Fixed cable</i>
	9	Sonderanfertigung / <i>Special</i>
Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / <i>Special length</i>
Sonstiges / Special	0	None / <i>None</i>
	1	2 Innenpuffer / <i>2 Internal buffer</i>
	4	KCI-Druckaufsatz / <i>KCI-pressure attachment</i>
	K	Kabellänge / <i>Cable length</i>
		Beispiel: 1 Meter = K01, 10 Meter = K10 <i>Example: 1 m = K01, 10 m = K10</i>
	9	Sonderanfertigung / <i>Special</i>

**Note!**

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.

Price on request.

1.8.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24132300K	205011320	pH sensor: Zircon junction 1 mm, Tepox gel 3mol KCl, S7-plug, 160 mm
S24132420K	205072100	pH sensor: PTFE junction, Tepox gel 3mol KCl, S8-plug (swivel PG 13.5), 120 mm
S24132400K	205012320	pH sensor: Zircon junction 1 mm, Tepox gel 3mol KCl, S7-plug, 160 mm

1.9 Zirkon® pH Coating

1.9.1 Description



Art. No. S24132320K

Order Code: 206051320

Sensors of the Zirkon® pH Coating series are developed for the use in lacquer and coatings. They are used in paint and coating industry. Crucial for the measurement in coatings is the contamination of the junction. This main determines the life expectancy of the sensor. In case of the Zirkon pH coating sensors the projecting junction can be protected with a membrane or a hole is used in combination with solid electrolyte instead of a junction.

Benefits

- Junction protectable
- Fluoride resistant
- According to DIN 55659 for pH measurement in electrophoretic dip painting

1.9.2 Applications



Industrial Water



Fluoride
Containing
Media



Laboratory

1.9.3 Technical data

Messparameter / Measuring parameter

pH-Wert / 1.00.. 11.00
pH-value

Prozessbedingungen / Ambient conditions

Druck. / PG 13,5 lose: < 1 bar bei 20 °C
Pressure KCl Druckaufsatz: < 6 bar bei 20 °C
Lochdiaphragma: < 1 bar bei 20 °C /

PG 13.5 loose: < 1 bar at 20 °C / 68 °F
KCl pressure attachment: < 6 bar at 20 °C / 68 °F
Hole junction: < 1 bar at 20 °C / 68 °F

Leitfähigkeit / 3mol KCl: > 50 µS/cm
Conductivity Tepoxgel: > 150 µS/cm /

3mol KCl: > 50 µS/cm
Tepox gel: > 150 µS/cm

Temperatur / 0.. +60 °C / 32.. 140 °F
Temperature

Konstruktiver Aufbau / Mechanical construction

Diaphragma / Zirkon 1 mm (15 mm vorstehend), Loch /
Junction Zircon 1 mm (15 mm projecting), Hole

Schaftmaterial / Glas /
Shaft material Glass

Schaftlänge / 120 mm, 160 mm, 240 mm
Shaft length

Elektrodenmaterial / S-Glas Kugel /
Electrode material S-Glass-ball

Bezugssystem / Ag / AgCl / Tepox gel 3mol KCl / Festelektrolyt
Reference system Ag / AgCl / Tepox gel 3mol KCl / Solid electrolyte

Innenpuffer / pH 7
Internal buffer

Mechanischer Anschluss / S8-Stecker (PG 13,5 - drehbar), S7-Stecker, Variopin
Process connection (PG 13,5 - drehbar), festangeschlossenes Kabel /

S8-plug (swivel PG 13.5), S7-plug, Variopin
(swivel PG 13.5), fixed cable

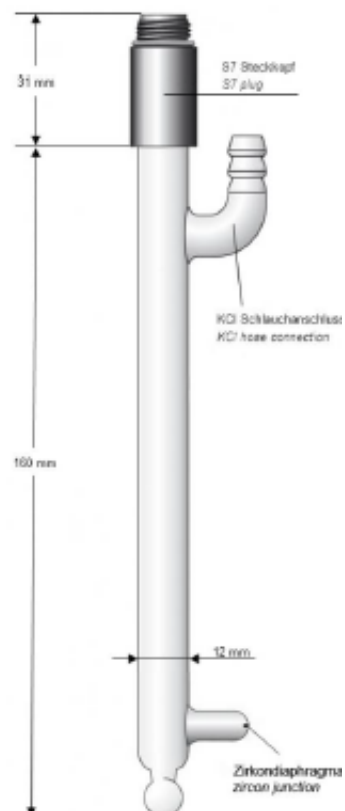
Elektrischer Anschluss /
Electrical connection

2-polig /
2-poles

Temperatursensor /
Temperature sensor

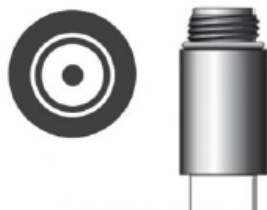
Kein /
None

1.9.4 Mechanical drawing

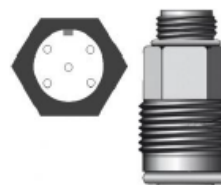


Art. No.: S24132320K

Order Code: 206051320



S7-plug



S8-plug



Hole



Zircon

1.9.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	206	Zirkon® pH Coating
Temperatursensor / Temperature sensor	0	Kein / None
	9	Sonderanfertigung / Special
Diaphragma / Junction	5	Zirkon 1 mm, (15 mm vorstehend) / Zircon 1 mm, (15 mm projecting)
	8	Loch / Hole
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	1	3mol KCl flüssig / 3mol KCl liquid
	5	Festelektrolyt / Solide electrolyte
	9	Sonderanfertigung / Special
Anschluss / Connection	0	Kein / None
	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	3	S7-Stecker / S7-plug
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / Special length

**Sonstiges /
Special**

0	Kein / None
4	KCI-Druckaufsatz / <i>KCI-pressure attachment</i>
K	Kabellänge / <i>Cable lenght</i> Beispiel: 1 Meter = K01, 10 Meter = K10 <i>Example: 1 m = K01, 10 m = K10</i>
9	Sonderanfertigung / <i>Special</i>



Note!

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.

Price on request.

1.9.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24132320K	206051320	pH sensor: Zircon junction (15 mm projecting), Tepox gel 3mol KCl, S7-plug, 160 mm

1.10 Zirkon® pH Pool

1.10.1 Description



Art. No.: S24132700K

Order Code: 207013100

Zirkon® pH Pool sensors are electrodes for pH measurement in swimming pool applications. The sensor is gel filled with a salt reservoir. It is not refillable requires little maintenance. The 1 mm junction and the salt reservoir increase the expected lifetime.

Benefits

- Low maintenance
- Higher life expectancy by KCl reservoir

1.10.2 Applications



Pool & Spa

1.10.3 Technical data**Messparameter / Measuring parameter**

pH-Wert / 0.00.. 14.00
pH-value

Prozessbedingungen / Ambient conditions

Druck / < 2 bar bei 20 °C /
Pressure < 2 bar at 20 °C / 68 °F

Leitfähigkeit / > 150 µS/cm
Conductivity

Temperatur/ -5.. +70 °C / 23..158 °F
Temperature

Konstruktiver Aufbau / Mechanical construction

Diaphragma / Zirkon 1 mm /
Junction Zircon 1 mm

Schaftmaterial / Glas /
Shaft material Glass

Schaftlänge / 120 mm
Shaft length

Elektrodenmaterial / LT-Glas-Kugel /
Electrode material LT-Glass ball

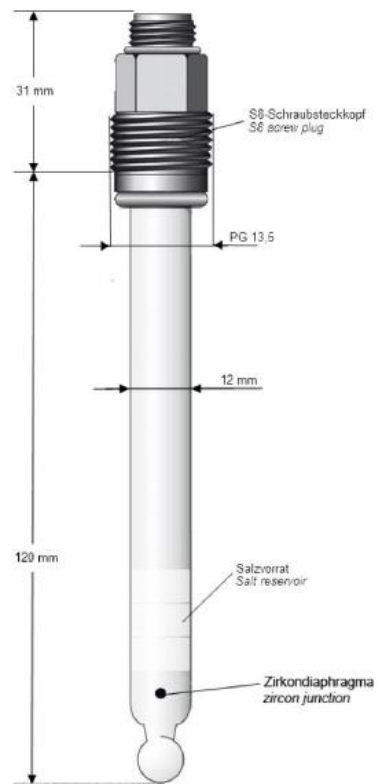
Bezugssystem / Ag / AgCl / gesättigt KCl /
Reference system Ag / AgCl / saturated KCl

Innenpuffer / pH 7
Internal buffer

Mechanischer Anschluss / S8-Stecker (13,5 - drehbar)
Process connection S8 -plug (swivel PG 13.5)

Elektrischer Anschluss / 2-polig /
Electrical connection 2-poles

Temperatursensor / Kein /
Temperature sensor None

1.10.4 Mechanical drawing

Art. No.: S24132700K

Order Code: 207013100

1.10.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	207	Zirkon® pH Pool
Temperatursensor/ Temperature sensor	0	Kein / None
Diaphragma / Junction	1	Zirkon 1 mm / Zircon 1 mm
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	3	Tepoxgel - gesättigt KCl mit Salzvorrat Tepox gel - saturated KCl with salt reservoir
	9	Sonderanfertigung / Special
Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	7	Festangeschlossenes Kabel / Fixed cable
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	9	Sonderlänge / Special length
Sonstiges / Special	0	Kein / None
	K	Kabellänge / Cable length
		Beispiel: 1 Meter = K01, 10 Meter = K10 Example: 1 Meter = K01, 10 meter = K10
	9	Sonderanfertigung / Special



Note!

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.

Price on request.

1.10.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24132700K	207013100	pH sensor: Zircon junction 1 mm, saturated KCl, S8- plug (swivel PG 13.5)

1.11 Zirkon® pH Process HT

1.11.1 Description



Art. No. S24132122K

Order Code: 208075100



Art. No. S24132133K

Order Code: 208175600

Sensors of the series Zirkon® pH Process HT are specialists for professional fielding in high temperature application. They are used in processes with higher permanent temperature (up to maximum 135 °C) and sterilisable application. Optionally a temperature probe can be added.

Benefits

- Temperature stable up to max. 135 °C / 275 °F
- Low maintenance
- Made in Germany

1.11.2 Applications



Industrial Water



Process Water



Cooling Water



Sterilisable



High-
temperature

1.11.3 Technical data

Messparameter / Measuring parameter

pH-Wert /
pH-value 0.00.. 14.00

Prozessbedingungen / Ambient conditions

Druck /
Pressure PG-Stecker: < 10 bar bei 20 °C
PG 13,5 lose: < 1 bar bei 20 °C
KCl-Druckaufsatz: < 6 bar bei 20 °C /

PG-plug: < 10 bar at 20 °C / 68 °F
PG 13.5 loose: < 1 bar at 20 °C / 68 °F
KCl-pressure attachment: < 6 bar bei 20 °C / 68 °F

Druck /
Pressure PTFE: <10 bar bei 20 °C
Zirkon: <2 bar bei 20 °C

PTFE: <10 bar at 20 °C / 68 °F
Zircon: <2 bar at 20 °C / 68 °F

Leitfähigkeit /
Conductivity > 150 µS/cm /

Temperatur /
Temperature -5.. +135 °C / 23..275°F

Konstruktiver Aufbau / Mechanical construction

Diaphragma /
Junction PTFE, Zirkon /
PTFE, Zircon

Schaftmaterial /
Shaft material Glas /
Glass

Schaftlänge /
Shaft length 120 mm, 225 mm

Schaftdurchmesser /
Shaft Diameter 12 mm

Elektrodenmaterial /
Electrode material AH-Glas /
AH-Glass

Bezugssystem /
Reference system Ag / AgCl / Festelektrolyt /
Ag / AgCl / Solide electrolyte

Innenpuffer /
Internal buffer pH 7

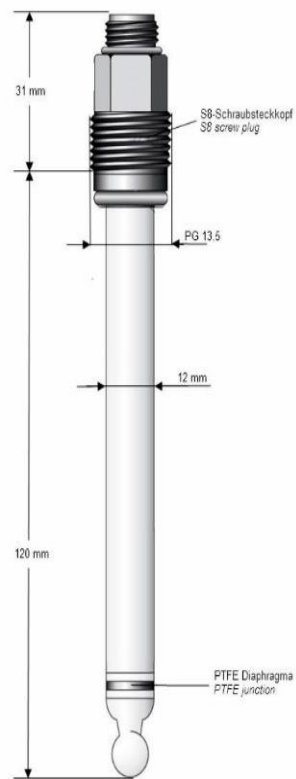
Mechanischer Anschluss /
Process connection S8-Stecker (PG 13,5 - drehbar) / Variopin (PG 13,5 - drehbar),
festangeschlossenes Kabel /
S8-plug (swivel PG 13.5) / Variopin (swivel PG 13.5) / fixed cable

Elektrischer Anschluss /
Electrical connection

2 or 8-polig /
2 or 8-poles

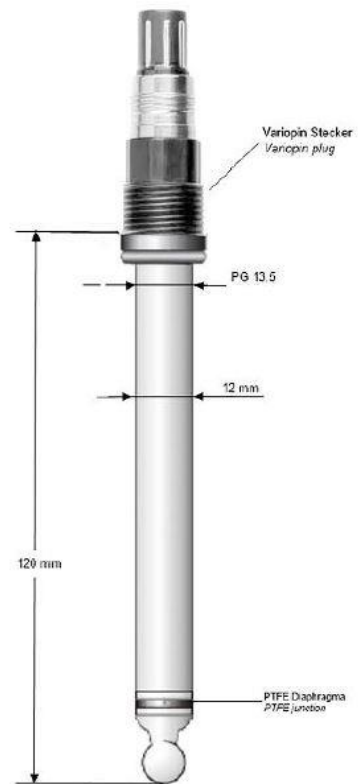
Temperatursensor /
Temperature sensor

Kein, Pt 100, Pt 1000 /
None, Pt 100, Pt 1000

1.11.4 Mechanical drawing

Art. No.: S24132122K

Order Code: 208075100



Art. No.: S24132133K

Order Code: 208175600

1.11.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	208	Zirkon® pH Process HT
Temperatursensor / Temperature sensor	0	Kein / None
	1	Pt 100
	2	Pt 1000
	9	Sonderanfertigung / Special
Diaphragma / Junction	0	Kein / None
	2	Zirkon 1 mm / Zircon 1 mm
	7	PTFE
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	5	Festelektrolyt / Solide electrolyte
Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	6	VP-Variopin-Stecker (PG 13,5 - drehbar) / VP-Variopin-plug (swivel PG 13.5)
	7	Festangeschlossenes Kabel / Fixed cable
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	4	225 mm
	9	Sonderlänge / Special length

**Sonstiges /
Special**

0

Kein /
None

K

Kabellänge /
Cable lenght

Beispiel:

1 Meter = K01, 10 Meter = K10

Example:

1 Meter = K01, 10 meter = K10

9

Sonderanfertigung /
Special



Note!

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.

Price on request.

1.11.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24132122K	208075100	pH sensor: PTFE junction, solid electrolyte, S8-plug (PG 13.5), 120 mm

1.12 Zirkon® pH Wide Body

1.12.1 Description



Art. No: S24136110K

Order Code: 2091100010



Art: S24136111K

Order Code: 209110003K06



Art.: S24136112K

Order Code: 2091120020



Art.: S24136113K

Order Code: 209112004K06

Kuntze sensors stand for quality and are manufactured by our own production. Made in Germany.

Application

- Flotation
- Leaching
- Neutralization
- Outlet monitoring

Benefitz

- Annular junction, designed to withstand tough industrial applications
- Threaded connection $\frac{3}{4}$ " NPT top and bottom for easy installation
- Protection guard against electrode damage
- Rugged Ryton® shaft for demanding chemical environments
- Optional: Molded sensor cable with BNC plug application
- Optional: Built in Pt 1000 / Pt 100 / NTC 30 kΩ sensor for temperature compensation
- Solution ground for stable measurements in demanding application
- Optional: Molded sensor cable suitable for submersion application

1.12.2 Applications



Disinfection



Industrial Water



Drinking Water



Process Water



Cooling Water

Food &
BeverageWaste Water
Treatment

1.12.3 Technical data**Messparameter / Measuring parameter**

pH-Wert / 0... 14
pH-value

Umgebungsbedingungen / Process conditions

Druck / < 10 bar bei 20 °C /
Pressure < 10 bar at 20 °C / 68 °F

Leitfähigkeit / 50 µS/cm
Conductivity

Temperatur / -5.. +100 °C / 23..212 °F
Temperature

Konstruktiver Aufbau / Mechanical construction

Diaphragma / PTFE
Junction

Schaftmaterial / Ryton®
Shaft material

Schaftlänge / 150 mm mit Schutzkorb /
Shaft length 150 mm with protective guard

Schaftdurchmesser / Sechskant 26 mm /
Shaft diameter Hexagon 26 mm

Elektrodenmaterial / AH-Glas /
Electrode material AH-Glass

Bezugssystem / Ag / AgCl / Festelektrolyt /
Reference system Ag / AgCl / Solid electrolyte

Mechanischer Anschluss / ¾" NPT
Process connection

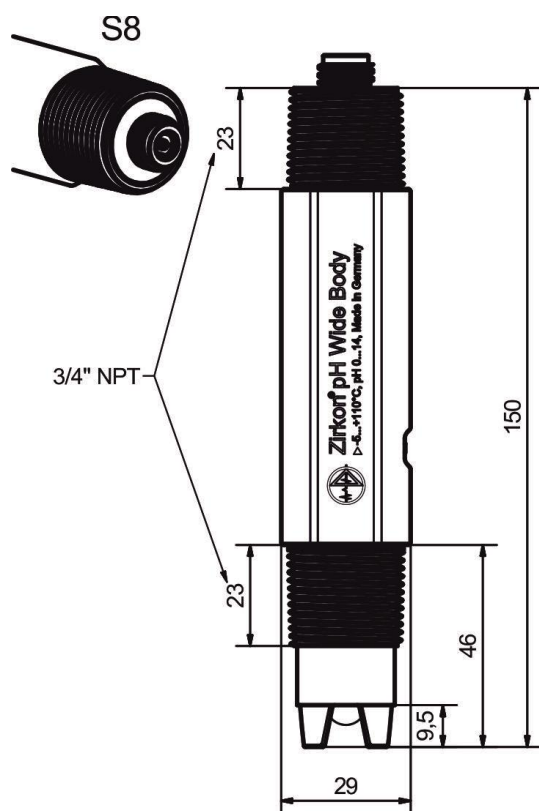
Elektrischer Anschluss / S8 (2-polig), Variopin (8-polig), Festkabel, Festkabel mit BNC
Electrical connection Stecker /

S8 (2-poles), Variophon (8-poles), Fixed cable, Fixed cable with BNC plug

Temperatursensor / Kein, Pt 1000 / Pt 100, NTC 30 kΩ
Temperature sensor None, Pt 1000 / Pt 100, NTC 30 kΩ

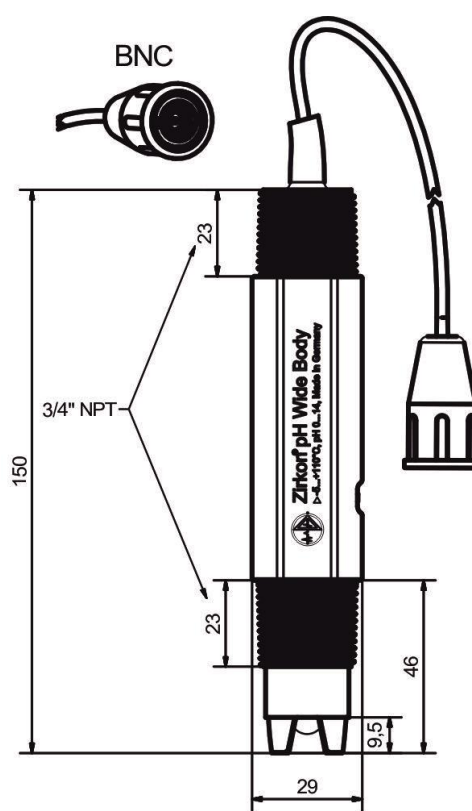
Eintauchtiefe / <i>Immersion depth</i>	25 mm
Potentialausgleich / <i>Potential compensation</i>	Optional

1.12.4 Mechanical drawing



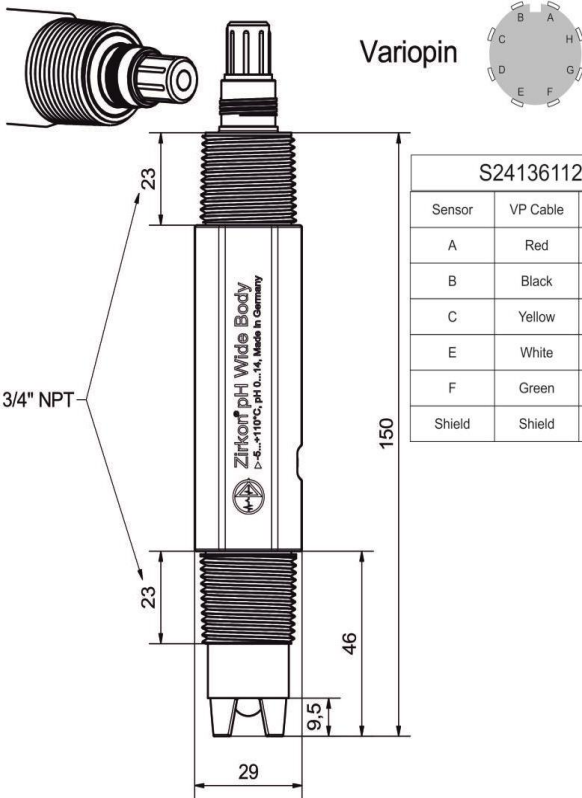
Art. No.: S24136110K

Order Code: 2091100010



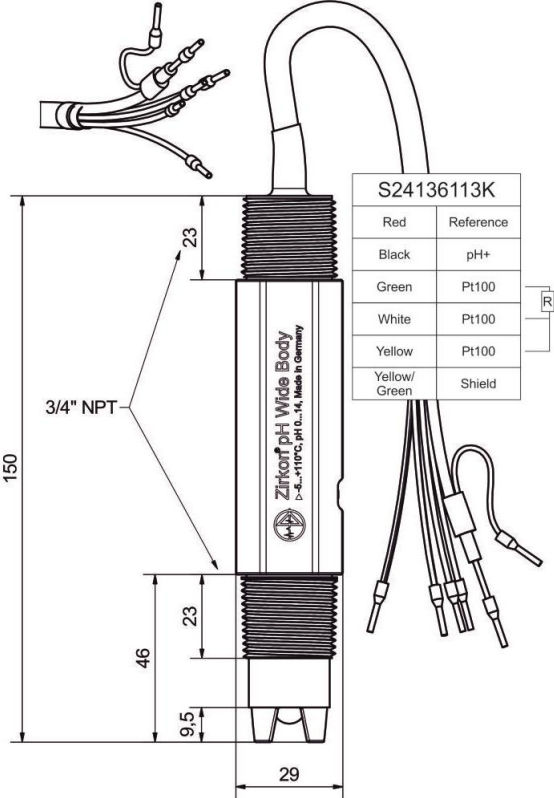
Art. No.: S24136111K

Order Code: 209110003K06



Art. No.: S24136112K

Order Code: 2091120020



Art. No.: S24136113K

Order Code: 209112004K06

1.12.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	209	Zirkon® pH Wide Body
Schutzkorb / Protective guard	0	Nein / None
	1	Mit / With
Messelektrode / Measuring electrode	1	AH-Glas, Halbkugel / AH-Glass, Half dome
Temperaturfühler / Temperature sensor	0	Kein / None
	1	Pt 100
	2	Pt 1000
	3	NTC 30 kΩ
	9	Sonderanfertigung / Special
Potentialausgleich / Solution ground	0	Nein / None
	1	Integriert / Build in
Brückenelektrolyt / Electrolyte (connect to process)	0	Tepoxgel 3mol KCl / Tepox gel 3mol KCl
	9	Sonderanfertigung / Special

Anschluss / Connect	1	S8 (2-polige) Schraubverbindung (nur Temperatursensor 0, Potentialausgleich 0) / <i>S8 (2-poles) screw connection (temperature sensor 0, solution ground 0 only)</i>
	2	VP Variopin Stecker (8-polig) / VP Variopin plug (8-poles)
	3	Festangeschlossenes Kabel 3 mm mit BNC (nur Temperatursensor 0, Potentialausgleich 0) / <i>Fixed cable 3 mm with BNC (temperature sensor 0, solution ground 0 only)</i>
	4	Festangeschlossenes Kabel 7,5 mm Koax + 3 Litzen + Außenschirm, Adernendhülsen / <i>Fixed cable 7.5 mm with ferrules 3 litz + external screen, cable end sleeves</i>
	9	Sonderanfertigung / <i>Special</i>
Sonstiges / Special	0	Nein / <i>None</i>
	K06	6 m Festkabel / <i>Fixed cable length 6 m</i>
	9	Sonderanfertigung / <i>Special</i>

**Note!**

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.

Price on request.

1.12.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24136110K	2091100010	Zirkon® pH Wide Body: With protection guard, AH-Glass, 2-poles connection for S8 cable
S24136111K	209110003K06	Zirkon® pH Wide Body: With protection guard, AH-Glass, Fixed cable 3 mm with BNC, length 6 m
S24136112K	2091120020	Zirkon® pH Wide Body: With protection guard, AH-Glass, Pt 1000, Variopin-plug (8-poles)
S24136113K	209112004K06	Zirkon® pH Wide Body: With protection guard, AH-Glass, Pt 1000, Fixed cable with ferrules, length 6 m

1.13 Zirkon® Rx

1.13.1 Description



Art. No.: S24135110K

Order Code: 211512320



Art. No.: S24135115K

Order Code: 211112100



Art. No.: S24135120K

Order Code: 211512100



Art. No.: S24135210K

Order Code: 211312320



Art. No.: S24135220K

Order Code: 211312100

The ORP sensors Zirkon® Rx allow ORP measurements in almost every kind of medium. They require little maintenance by the gel filling and the electrode assembly or the big electrode surface.

Benefits

- Low maintenance by gel filling
- Made in Germany

1.13.2 Applications



Industrial Water



Drinking Water



Process Water



Cooling Water



Waste Water
Treatment

1.13.3 Technical data**Messparameter / Measuring parameter**

Redoxpotential /
ORP -1500.. +1500 mV

Umgebungsbedingungen / Ambient conditions

Druck /
Pressure PG-Stecker: < 2 bar bei 20 °C
PG-Stecker 13,5 lose: < 1 bar drucklos

PG-Plug: < 2 bar at 20 °C / 68 °F
PG-Plug 13.5 lose: < 1 bar pressureless

Temperatur /
Temperature -5.. +70 °C / 23..158 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma /
Junction Zirkon 1 mm /
Zircon 1 mm

Schaftmaterial /
Shaft material Glas /
Glass

Schaftlänge /
Shaft length 120 mm, 160 mm

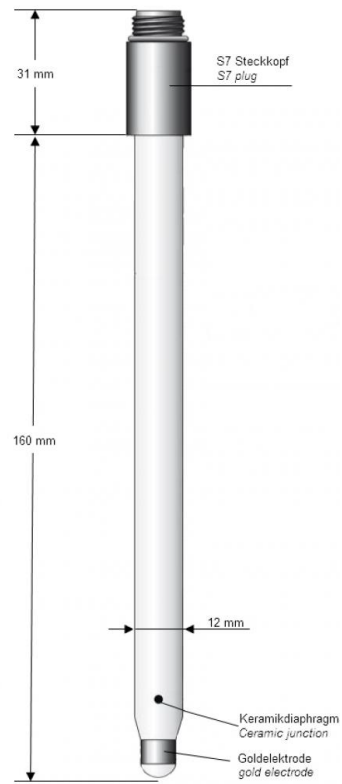
Elektrodenmaterial /
Electrode material Goldkuppe, Platinring, Platinkuppe, Goldring /
Gold plate, Patinum ring, Platinum plate, Gold ring

Bezugssystem /
Reference system Ag / AgCl / Tepoxgel 3mol KCl /
Ag / AgCl / Tepox gel 3mol KCl

Mechanischer Anschluss /
Process connection S8-Stecker (PG 13,5 - drehbar), S7-Stecker, festangeschlossen /
S8-plug (swivel PG 13.5), S7-plug, fixed cable

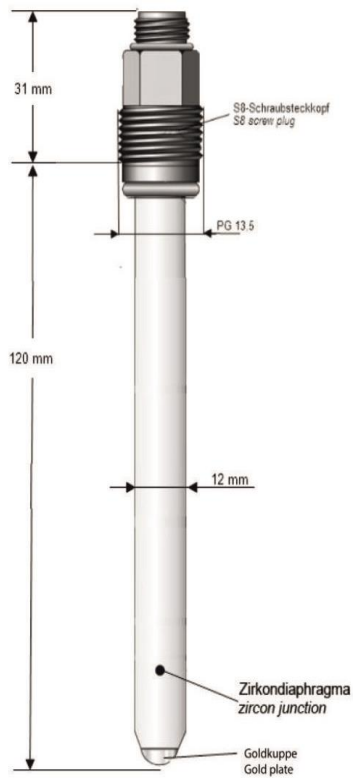
Elektrischer Anschluss /
Electrical connection 2-polig /
2-poles

1.13.4 Mechanical drawing



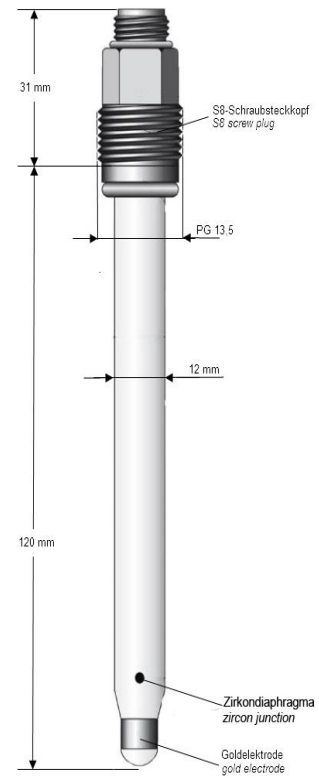
Art. No.: S24135110K

Order Code: 211512320



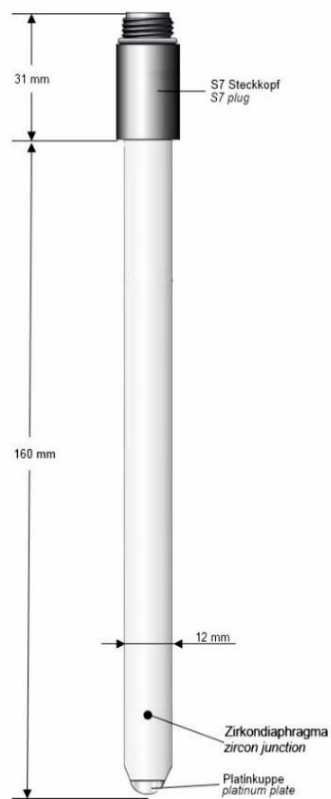
Art. No.: S24135115K

Order Code: 211112100



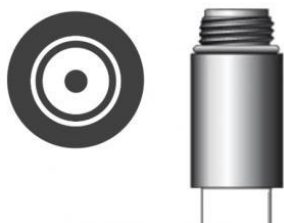
Art. No.: S24135120K

Order Code: 211512100

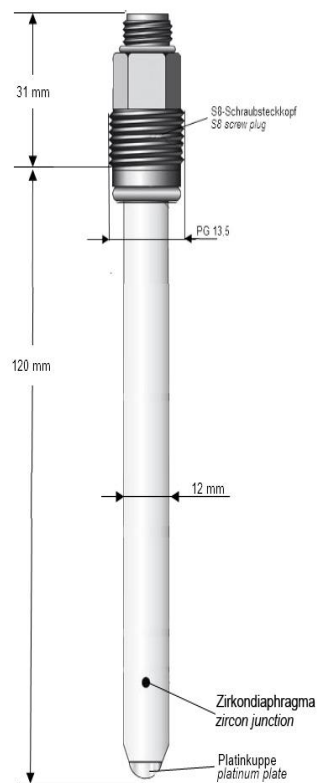


Art. No.: S24135210K

Order Code: 211312320

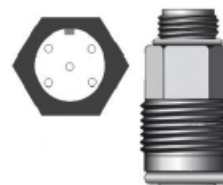


S7-plug



Art. No.: S24135220K

Order Code: 211312100



S8-plug

1.13.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	211	Zirkon® Rx
Elektrodenmaterial / Electrode material	1	Goldkuppe / Gold plate
	2	Platinring / Platinum ring
	3	Platinkuppe / Platinum plate
	5	Goldring / Gold ring
	9	Sonderanfertigung / Special
Diaphragma / Junction	1	Zirkon 1 mm / Zircon 1 mm
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	2	Tepoxgel 3mol KCl / Tepox gel 3mol KCl
	9	Sonderanfertigung / Special
Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	3	S7 Stecker / S7 plug
	7	Festangeschlossenes Kabel / Fixed Cable
	9	Sonderanfertigung / Special

Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / <i>Special length</i>
Sonstiges / Special	0	Kein / <i>None</i>
	K	Kabellänge / <i>Cable length</i>
		Beispiel: 1 Meter = K01, 10 Meter = K10 <i>Example:</i> 1 Meter = K01, 10 meter = K10
	9	Sonderanfertigung / <i>Special</i>

**Note!**

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.

Price on request.

1.13.6 Storage version

Artikel Nr. / Article No.	Typ/ Type	Beschreibung / Description
S24135110K	211512320	ORP sensor: Gold ring Tepox gel 3mol KCl, Zircon junction 1 mm, S7-plug, 160 mm
S24135120K	211512100	ORP sensor: Gold ring Tepox gel 3mol KCl, Zircon junction 1 mm, S8-plug (swivel PG 13.5), 120 mm
S24135210K	211312320	ORP sensor: Platinum cap, Tepox gel 3mol KCl, Zircon junction 1 mm, S7-plug, 160 mm
S24135220K	211312100	ORP sensor: Platinum cap, Tepox gel 3mol KCl , Zircon junction 1 mm, S8-plug (swivel PG 13.5), 120 mm

1.14 Zirkon® Rx Process

1.14.1 Description



Art. No.: S24135135K

Order Code: 213512210

The Zirkon® Rx Process sensors are have special chemical resistant materials meant for aggressive media. The sensors are equipped with gold or platinum rings for ORP measurement. The sensors are gel filled, non-refillable and require little maintenance.

Benefits

- Usable for aggressive media
- Low maintenance by gel filling
- Made in Germany

1.14.2 Applications

Disinfection



Industrial Water



Process Water



Cooling Water

Waste Water
Treatment

1.14.3 Technical data

Messparameter / *Measuring parameter*

Redoxpotential /
ORP -1500.. +1500 mV

Umgebungsbedingungen / *Ambient conditions*

Temperatur /
Temperature -5.. +70 °C / 23..158 °F

Konstruktiver Aufbau / *Mechanical construction*

Diaphragma /
Junction Zirkon 1 mm, Platin, PTFE, Loch /
Zircon 1 mm, Platinum, PTFE, Hole

Schaftmaterial /
Shaft material Glas /
Glass

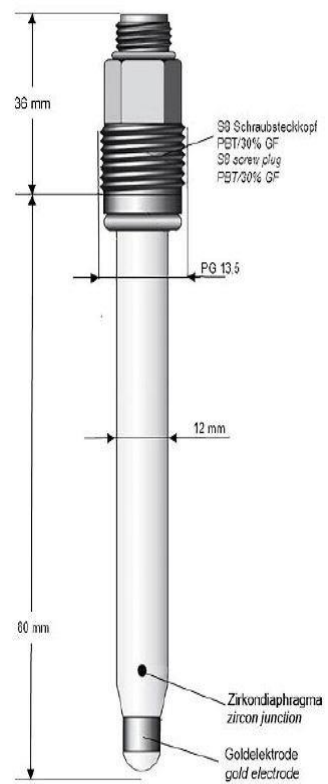
Schaftlänge /
Shaft length 80 mm, 120 mm, 160 mm, 225 mm

Elektrodenmaterial /
Electrode material Goldkuppe, Platinring, Platinkuppe, Goldring /
Gold plate, Platinum ring, Platinum plate, Gold ring

Bezugssystem /
Reference system Ag / AgCl / Texogel 3mol KCl / Festelektrolyt /
Ag / AgCl / Texo gel 3mol KCl / Solid electrolyte

Mechanischer Anschluss /
Process connection S8-Stecker für aggressive Medien (PG 13,5) /
S8-plug for aggressive media (PG 13.5)

Elektrischer Anschluss /
Electrical connection 2-polig /
2-poles

1.14.4 Mechanical drawing

Art. No.: S24135135K

Order Code: 213512210

1.14.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	213	Zirkon® Rx Process
Elektrodenmaterial / Electrode material	1	Goldkuppe / Gold plate
	2	Platinring / Platinum ring
	3	Platinkuppe / Platinum plate
	4	Gold- und Platinring / Gold- and Platinum ring
	5	Goldring / Goldring
	9	Sonderanfertigung/ Special
Diaphragma / Junction	0	Kein / None
	1	Zirkon 1 mm / Zircon 1 mm
	3	Platin / Platinum
	7	PFTE
	8	Loch / Hole
	9	Sonderanfertigung / Special
Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	2	S8-Stecker (PG 13,5) für aggressive Medien / S8-plug (PG13.5) for aggressive media
	9	Sonderanfertigung / Special

Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / <i>Special length</i>
Sonstiges / Special	0	Kein / <i>None</i>
	K	Kabellänge / <i>Cable length</i>
		Beispiel: 1 Meter = K01, 10 Meter = K10 <i>Example:</i> 1 Meter = K01, 10 meter = K10
	9	Sonderanfertigung / <i>Special</i>

**Note!**

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.

Price on request.

1.14.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135135K	213512210	ORP sensor: Gold ring, Zircon junction 1 mm, Tepox gel 3mol KCl, S8-plug PBT/30 % GF, 80 mm

1.15 Zirkon® Rx Process Refill

1.15.1 Description



Art. No.: S24135200K

Order Code: 214311320

Zirkon® Rx Process Refill are refillable sensors for ORP measurement. The sensors have a high blocking resistance and are usable over a broad temperature range in nearly any kind of process water.

Benefits

- Long lifetime by refillable reference electrode
- Broad temperature range
- Made in Germany

1.15.2 Applications

Industrial Water



Process Water



Cooling Water

Waste Water
Treatment

1.15.3 Technical data**Messparameter / Measuring parameter**

Redoxpotential /
ORP -1500.. +1500 mV

Umgebungsbedingungen / Ambient conditions

Druck /
Pressure PG-Stecker: < 2 bar bei 20 °C
PG-Stecker 13,5 lose: < 1 bar drucklos
KCI Druckaufsatz: < 6 bar bei 20 °C /

PG-Plug: < 2 bar at 20 °C / 68 °F
PG-Plug 13.5 lose: < 1 bar pressureless
KCI pressure attachment: < 6 bar bei 20 °C / 68 °F

Temperatur /
Temperature -5.. +100 °C / 23..212 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma /
Junction Zirkon 1 mm / Platin
Zircon 1 mm / Platinum

Schaftmaterial /
Shaft material Glas /
Glass

Schaftlänge /
Shaft length 120 mm, 225 mm, 160 mm

Schaftsdurchmesser /
Shaft diameter 12 mm

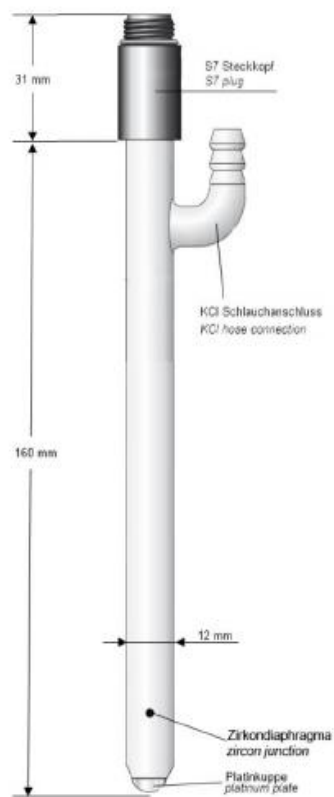
Elektrodenmaterial /
Electrode material Platinring, Platinkuppe, Goldring, Goldkuppe /
Platinum ring, Platinum plate, Gold ring, Platinum plate

Bezugssystem /
Reference system Ag / AgCl / Tepoxgel 3mol KCl /
Ag / AgCl / Tepox gel 3mol KCl

Mechanischer Anschluss /
Process connection S7-Stecker / S8-Stecker (PG 13,5 - drehbar),
festangeschlossenes Kabel /

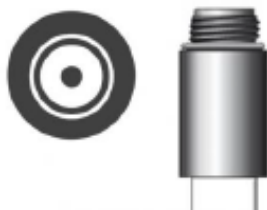
S7-plug, S8-plug (swivel PG 13.5), fixed cable

Elektrischer Anschluss /
Electrical connection 2-polig /
2-poles

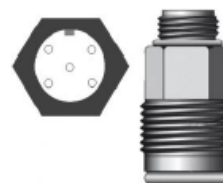
1.15.4 Mechanical drawing

Art. No.: S24135200K

Order Code: 214311320



S7-plug



S8-plug

1.15.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	214	Zirkon® Rx Process Refill
Elektrodenmaterial / Electrode material	1	Goldkuppe / Gold plate
	2	Platinring / Platinum ring
	3	Platinkuppe / Platinum plate
	4	Gold- und Platinring / Gold- and Platinum ring
	5	Goldring / Gold ring
	9	Sonderanfertigung / Special
Diphagma / Junction	1	Zirkon 1 mm / Zircon 1 mm
	3	Platin / Platinum
	6	Glasschliff nur KCl-flüssig / Glass sleeve only KCl liquid
	7	PTFE
	8	Loch / Hole
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	1	3mol KCl flüssig / 3mol KCl liquid
	9	Sonderanfertigung / Special

**Anschluss /
Connection**1 S8-Stecker (PG13,5 - drehbar) /
S8-plug (swivel PG 13.5 - swivel)3 S7-Stecker /
S7-plug7 Festangeschlossenes Kabel /
Fixed Cable9 Sonderlänge /
Special**Länge /
Length**

0 120 mm

2 160 mm

4 225 mm

9 Sonderlänge /
Special length**Sonstiges /
Special**0 Kein /
NoneK Kabellänge /
Cable length

Beispiel: 1 meter = K01, 10 Meter = K10

Example:

1 Meter = K01, 10 meter = K10

4 KCI-Druckaufsatz /
KCI-pressure attachment9 Sonderanfertigung /
Special**Note!**

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.

Price on request.

1.15.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135200K	214311320	ORP sensor: Platinum plate, Zircon junction 1 mm, 3mol KCl liquid refillable, S7-plug, 160 mm

1.16 Zirkon® Rx Pool

1.16.1 Description



Art. No.: S24135285K

Order Code: 217313100



Art. No.: S24134010K

Order Code: 217300100

Zirkon® Rx Pool sensors are sensors for ORP measurement in swimming pool applications. The sensors are gel filled with salt reservoir, not refillable and require little maintenance. The 1 mm junction and the salt reservoir increase the expected lifetime.

Benefits

- Low maintenance
- Higher life expectancy by KCl reservoir
- Made in Germany

1.16.2 Applications

Pool & Spa

1.16.3 Technical data**Messparameter / Measuring parameter**

Redoxpotential /
ORP -1500.. +1500 mV

Umgebungsbedingungen / Ambient conditions

Temperatur /
Temperature -5.. +70 °C / 23..158 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma /
Junction Kein , Zirkon 1 mm /
None, Zircon 1 mm

Schaftmaterial /
Shaft material Glas /
Glass

Schaftlänge /
Shaft length 120 mm

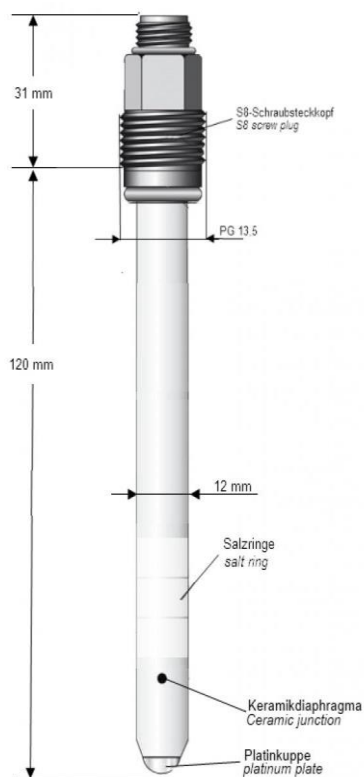
Elektrodenmaterial /
Electrode material Platinkuppe /
Platinum plate

Bezugssystem /
Reference system Kein, Ag / AgCl / KCl gesättigt /
None, Ag / AgCl / KCl saturated

Mechanischer Anschluss /
Process connection S8-Stecker (PG 13,5 - drehbar), festangeschlossenes Kabel /
S8-plug (swivel PG 13.5), fixed cable

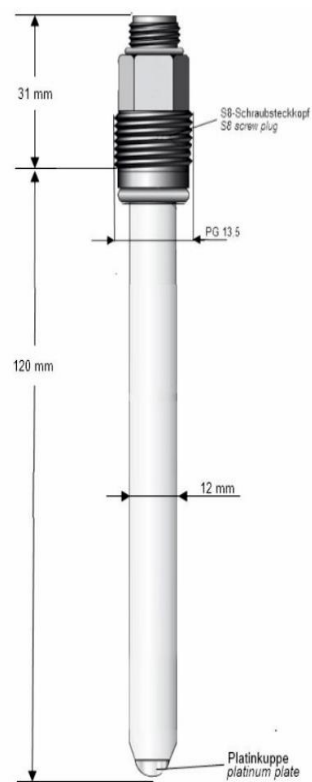
Elektrischer Anschluss /
Electrical connection 2-polig /
2-poles

1.16.4 Mechanical drawing



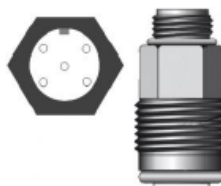
Art. No.: S24135285K

Order Code: 217313100



Art. No.: S24134010K

Order Code: 217300100



S8-plug

1.16.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	217	Zirkon® Rx Pool
Elektrodenmaterial / Electrode material	3	Platinkuppe / Platinum plate
	9	Sonderanfertigung / Special
Diaphragma / Junction	0	Kein / None
	1	Zirkon 1 mm / Zircon 1mm
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	3	Tepoxgel - gesättigte KCl mit Salzvorrat / Tepox gel - saturated KCl with salt reservoir
	9	Sonderanfertigung / Special
Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	7	Festangeschlossenes Kabel / Fixed Cable
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	9	Sonderlänge / Special length

**Sonstiges /
Special**

0

Kein /
None

K

Kabellänge /
Cable length

Beispiel:

1 Meter = K01, 10 Meter = K10

Example:

1 Meter = K01, 10 meter = K10

9

Sonderanfertigung /
Special

Note!

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.

Price on request.

1.16.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24135285K	217313100	ORP sensor: Platinum plate, Zircon junction 1 mm, KCl-saturated, S8-plug rotatable swivel PG 13.5), 120 mm
S24134010K	217300100	ORP electrode: Platinum plate, S8-plug rotatable (swivel PG 13.5), 120 mm

1.17 Zirkon® Redox Wide Body

1.17.1 Description



Art. No.: S24136511K

Order Code: 2191100010



Art. No.: S24136512K

Order Code: 219110003K06



Art. No.: S24136513K

Order Code: 219112104K06

Kuntze sensors stand for quality and are manufactured by our own production. Made in Germany.

Application

- Flotation
- Leaching
- Neutralization
- Outlet monitoring

Benefits

- Annular junction, designed to withstand tough industrial applications
- Threaded connection $\frac{3}{4}$ " NPT top and bottom for easy installation
- Protection guard against electrode damage
- Rugged Ryton® shaft for demanding chemical environments
- Optional: Built in, Pt 1000 / Pt 100 / NTC 30K sensor for temperature compensation
- Optional: Solution ground for stable measurements in demanding application
- Optional: Molded sensor cable with BNC plug application

1.17.2 Applications



Disinfection



Industrial Water



Drinking Water



Process Water



Cooling Water

Food &
BeverageWaste Water
Treatment

1.17.3 Technical data

Messparameter / Measuring parameter

Redoxpotential /
OPR -1500... +1500 mV

Umgebungsbedingungen / Process conditions

Druck /
Pressure < 10 bar bei 20 °C /
< 10 bar at 20 °C / 68 °F

Leitfähigkeit /
Conductivity 50 µS/cm

Temperatur /
Temperature -5.. +110 °C / 23..230 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma /
Junction PTFE

Schaftmaterial /
Shaft materials Ryton®

Schaftlänge /
Shaft length 150 mm mit Schutzkorb /
150 mm with protective guard

Schaftdurchmesser /
Shaft diameter Sechskant 26 mm /
Hexagon 26 mm

Elektrodenmaterial /
Electrode material Platinkuppe /
Platinum Plate

Bezugssystem /
Reference system Ag / AgCl / Festelektrolyt /
Ag / AgCl / Solid electrolyte

Mechanischer Anschluss /
Process connection ¾" NPT

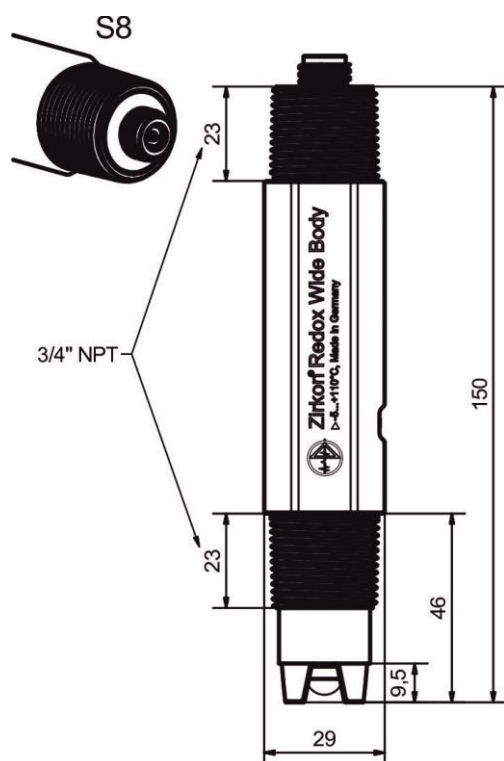
Elektrischer Anschluss /
Electrical connection S8 (2-polig), Variopin (8-polig), Festkabel 6 m,
Festkabel mit BNC-Stecker /

S8 (2-poles), Variopin (8-poles), fixed cable 6 m,
fixed cable with BNC-plug

Temperatursensor /
Temperature sensor Nein , Pt 100, Pt 1000, NTC 30 kΩ /
None, Pt 1000, NTC 30 kΩ

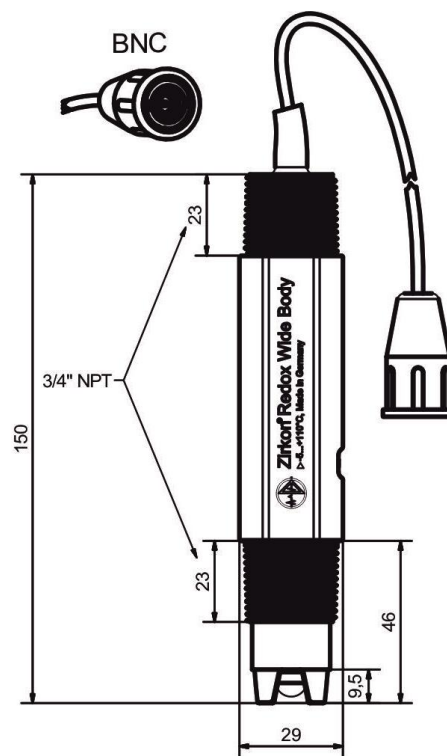
Eintauchtiefe / <i>Immersion depth</i>	25 mm
Potentialausgleich / Potential compensation	Optional

1.17.4 Mechanical drawing



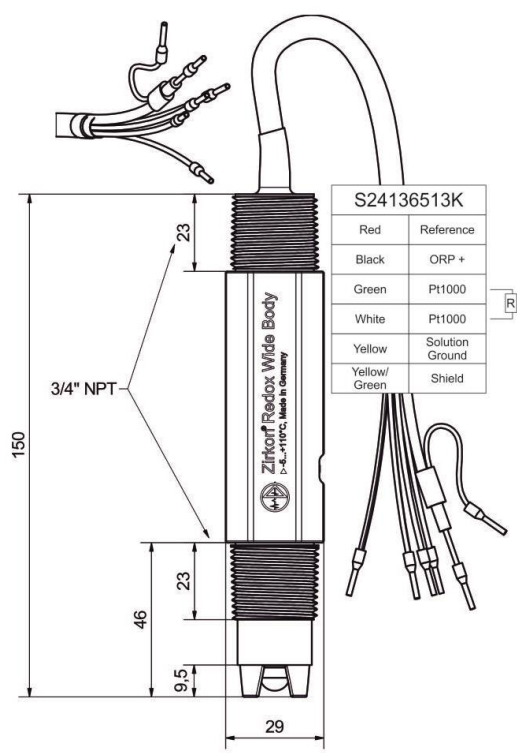
Art. No.: S24136511K

Order Code: 2191100010



Art. No.: S24136512K

Order Code: 219110003K06



Art. No.: S24136513K

Order Code: 219112104K06

1.17.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	219	Zirkon® Redox Wide Body
Schutzkorb / Protective guard	0	Nein / None
	1	Mit / With
Messelektrode / Measuring electrode	1	Platinkuppe / Platinum plate
Temperaturfühler / Temperature sensor	0	Kein / None
	1	Pt 100
	2	Pt 1000
	3	NTC 30 kΩ
	9	Sonderanfertigung / Special
Potentialausgleich / Solution ground	0	Nein / None
	1	Integriert / Built in
Brückenelektrolyt / Contact to process	0	Tepoxgel 3mol KCl / Tepox gel 3mol KCl
	1	Integriert / Build in

Anschluss / Connect	1	S8 (2-polige) Schraubverbindung (nur Temperatursensor 0, Potentialausgleich 0) / <i>S8 (2-poles) screw connection (temperature sensor 0, solution ground 0 only)</i>
	2	VP Variopin Stecker (8 polig) / VP Variopin plug (8 poles)
	3	Festangeschlossenes Kabel 3 mm mit BN nur Temperatursensor 0, Potentialausgleich 0) / <i>Fixed cable 3 mm with BNC (temperature sensor 0, solution ground 0 only)</i>
	4	Festangeschlossenes Kabel 7,5 mm Koax + 3 Litzen + Außenschirm, Adernendhülsen / <i>Fixed cable 7.5 mm coax + 3 litz wires + outer shield, wire end sleeves</i>
	9	Sonderanfertigung / Special
Sonstiges / Special	0	Nein / None
	K06	6 m Festkabel / Fixed cable length 6 m
	9	Sonderanfertigung / Special

**Note!**

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.

Price on request.

1.17.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24136511K	2191100010	Zirkon® Redox Wide Body: With protection guard, Platinum plate, 2-poles connection for S8-cable
S24136512K	219110003K06	Zirkon® Redox Wide Body: With protection guard, Platinum plate, fixed cable 3 mm with BNC, length 6 m
S24136513K	219112104K06	Zirkon® Redox Wide Body: With protection guard, Platinum plate, Pt 1000, built in solution ground, fixed cable with ferrules, length 6 m

1.18 Zirkon® REF

1.18.1 Description



Art. No.: S24133100K

Order Code: 221B12320



Art. No.: S24133110K

Order Code: 221B12100

Zirkon® Ref are reference electrodes. They are used as reference point for other electrodes with relative potentials e.g. in pH or ORP measurement. The gel filled sensors need lower maintenance and are used in standard application.

Benefits

- Low maintenance by gel filling
- Made in Germany

1.18.2 Applications

Industrial Water



Process Water

Waste Water
Treatment

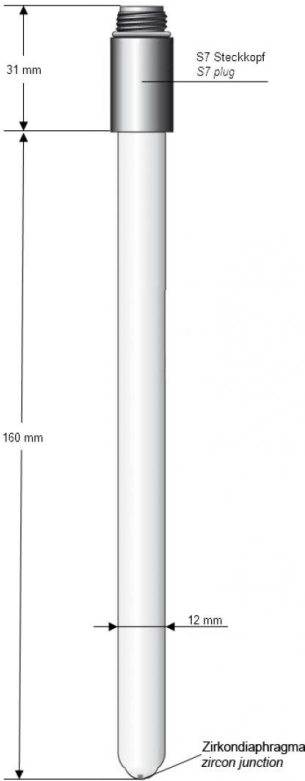
1.18.3 Technical data**Umgebungsbedingungen / Ambient conditions**

Druck / <i>Pressure</i>	PG-Stecker: < 2 bar bei 20 °C PG 13,5 lose: < 1 bar drucklos / <i>PG-plug: < 2 bar at 20 °C / 68 °F</i> <i>PG 13.5 loose: < 1 bar pressureless</i>
Temperatur / <i>Temperature</i>	-5.. +70 °C / 23..158 °F

Konstruktiver Aufbau / Mechanical construction

Diaphragma / <i>Junction</i>	Zirkon 1 mm, Platin / <i>Zircon 1 mm, Platinum</i>
Schaftmaterial / <i>Shaft material</i>	Glas / <i>Glass</i>
Schaftlänge / <i>Shaft length</i>	120 mm, 160 mm, 225 mm
Bezugssystem / <i>Reference system</i>	Tepoxgel 3mol KCl / <i>Tepox gel 3mol KCl</i>
Mechanischer Anschluss / <i>Process connection</i>	S8-Stecker (PG 3,5 - drehbar), S7-Stecker, Festkabel/ <i>S8-plug (swivel PG 13.5), S7-plug, fixed cable</i>
Elektrischer Anschluss / <i>Electrical connection</i>	2-polig / <i>2-poles</i>

1.18.4 Mechanical drawing

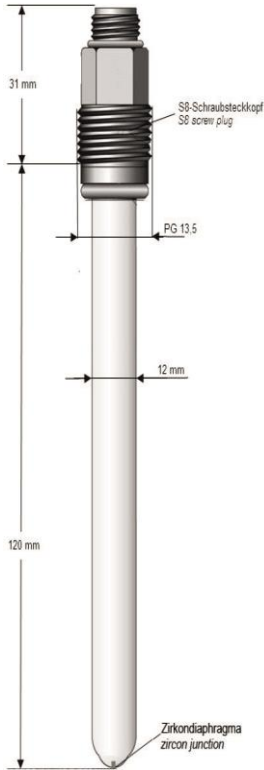


Art. No.: S24133100K

Order Code: 221B12320

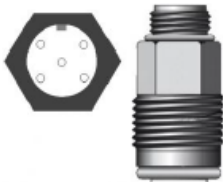


S7-plug



Art. No.: S24133110K

Order Code: 221B12100



S8-plug

1.18.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	221	Zirkon® REF
Typ / Type	B	Bezug / Reference
Diaphragma / Junction	1	Zirkon 1 mm / Zircon 1 mm
	3	Platin / Platinum
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	2	Tepoxgel 3mol KCl/ Tepox gel 3mol KCl
	9	Sonderanfertigung / Special
Anschluss / Connection	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (PG 13.5 - swivel)
	3	S7-Stecker S7-plug
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / Special length

**Sonstiges /
Special**

0	Kein / None
1	Diaphragma zweifach / Junction twice
9	Sonderanfertigung / Special



Note!

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.

Price on request.

1.18.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24133100K	221B12320	Reference electrode: Zircon junction 1 mm, Tepox gel 3mol KCl, S7-plug, 160 mm
S24133110K	221B12100	Reference electrode: Zircon junction 1 mm, Tepox gel 3mol KCl, S8-plug (swivel PG13.5), 120 mm

1.19 Zirkon® REF Process Refill

1.19.1 Description



Art. No.: S4133000K

Order Code: 224B11320



Art. No.: S24133800K

Order Code: 224E10000



Art. No.: S24133830K

Order Code: 224E30001

Zirkon® Ref Refill are refillable reference electrodes. They are used as a reference point for other electrodes with relative potentials e.g. in pH or ORP measurements. The liquid filled sensor is mainly used in waste water. For highly polluted measuring media the electrolyte bridges are recommended, because the reference electrode will not be in contact with the measuring media.

Benefits

- Long life time by refill
- Sensor protection via electrolyte bridge
- Made in Germany

1.19.2 Applications

Industrial Water



Process Water

Waste Water
Treatment

1.19.3 Technical data

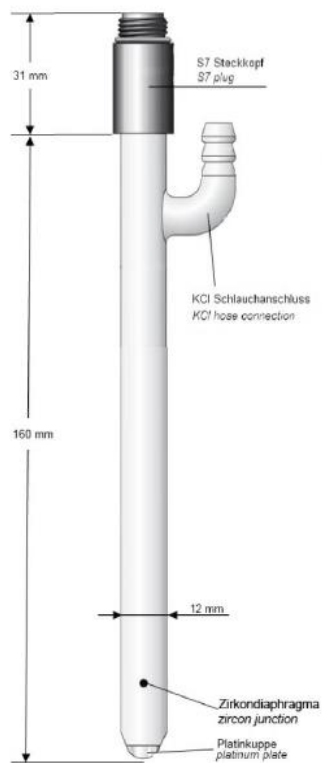
Umgebungsbedingungen / Ambient conditions

Druck / Pressure	PG 13,5 lose: <1 bar at 20 °C KCl Druckaufsatz: < 6 bar at 20 °C / PG 13.5 loose: <1 bar at 20 °C / 68 °F KCl pressure attachment: < 6 bar at 20 °C / 68 °F
Leitfähigkeit / Conductivity	Platindiaphragma: < 50 µS/cm Zirkondiaphragma: < 50 µS/cm / Platinum junction: < 50 µS/cm Zirkon junction: > 50 µS/cm
Temperatur / Temperature	-5.. +100 °C / 23..212 °F

Konstruktiver / Mechanical construction

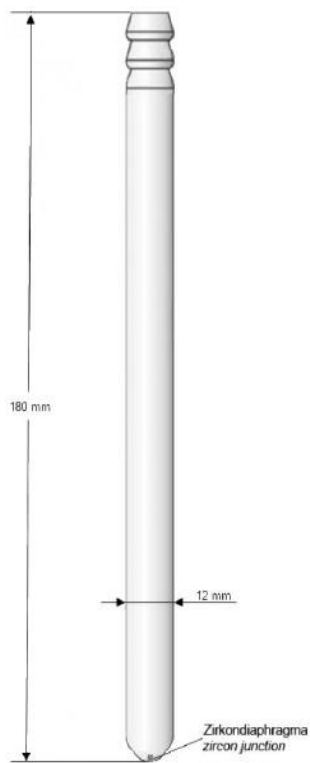
Diaphragma / Junction	Zirkon 1 mm, Platin / Zircon 1 mm, Platinum
Schaftmaterial / Shaft material	Glas / Glass
Schaftlänge / Shaft length	160 mm, 180 mm
Bezugssystem / Reference system	Kein, 3mol KCl flüssig / None, 3mol KCl liquid
Mechanischer Anschluss / Process connection	Kein, S7-Stecker, S8-Stecker (PG-Stecker 13,5) / None, S7-plug, S8-plug (swivel PG 13.5)
Elektrischer Anschluss / Electrical connection	Kein, 2-polig / None, 2-poles

1.19.4 Mechanical drawing



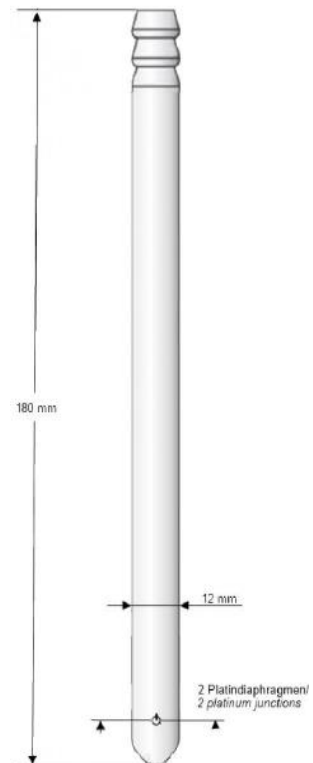
Art. No.: S4133000K

Order Code: 224B11320



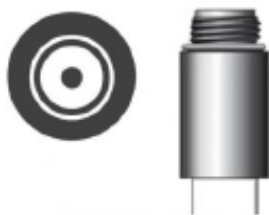
Art. No.: S24133800K

Order Code: 224E10000

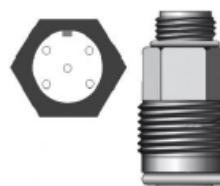


Art. No.: S24133830K

Order Code: 24E30001



S7-plug



S8-plug

1.19.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	224	Zirkon® REF Process Refill
Typ / Type	B	Bezug / Reference
	E	Elektrolytbrücke / Electrolyte bridge
Diaphragma / Junction	1	Zirkon 1 mm / Zircon 1 mm
	3	Platin / Platinum
	9	Sonderanfertigung / Special
Elektrolyt / Electrolyte	0	Keine / None
	1	3mol KCl flüssig / 3mol KCl liquid
	2	Tepoxgel 3 mol KCl / Tepox gel 3mol KCl
	9	Sonderanfertigung / Special
Anschluss / Connection	0	Kein / None
	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (swivel PG 13.5)
	3	S7-Stecker / S7-plug
	9	Sonderanfertigung / Special

Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / <i>Special length</i>
Sonstiges / Special	0	Kein / <i>None</i>
	1	Diaphragma zweifach / <i>Junction twice</i>
	4	KCI-Druckaufsatz / <i>KCI-pressure attachment</i>
	9	Sonderanfertigung / <i>Special</i>

**Note!**

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.

Price on request.

1.19.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24133000K	224B21320	Reference electrode: Zircon junction 1 mm, Tepox gel 3mol KCl liquid, S7-plug
S24133800K	224E10000	Electrolyte bridge: Zircon junction 1mm
S24133830K	224E30001	Electrolyte bridge: 2 x Platinum junction

1.20 Zirkon® Temperatur

1.20.1 Description



Art. No.: S24137000K

Order Code: 271100320



Art. No.: S24137011K

Order Code: 271100100



Art. No.: S24137012

Order Code: 271200100

Zirkon® T are high quality temperature sensors based on the resistance change of platinum wire as a function of temperature. They are specially designed to give fast response, with a t_{90} of 15 seconds.

Benefits

- Fast response - t_{90} = 15 sec
- Chemical resistant
- Pt 100 and Pt 1000 available

1.20.2 Applications

Drinking Water



Process Water



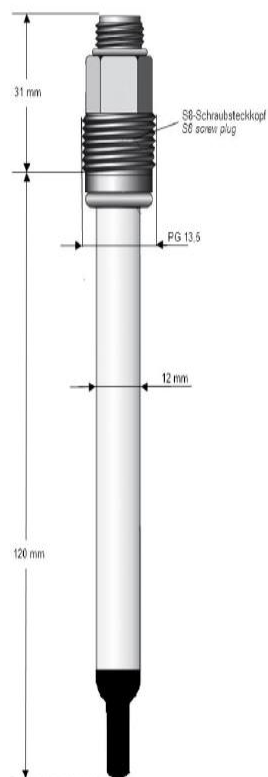
Laboratory

1.20.3 Technical data**Umgebungsbedingungen / Process conditions**

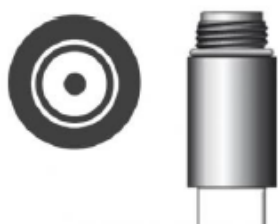
Druck / <i>Pressure</i>	>10 bar bei 20 °C / >10 bar at 20 °C / 68 °F
Temperatur / <i>Temperature</i>	-20.. +130 °C / -4..266°F

Konstruktiver Aufbau / Mechanical construction

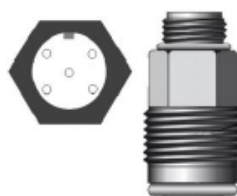
Schaftmaterial / <i>Shaftmaterial</i>	Glas / <i>Glass</i>
Schaftlänge / <i>Shaft length</i>	120 mm, 160 mm
Mechanischer Anschluss / <i>Process connection</i>	S7-Stecker, S8-Stecker (PG 13,5 - drehbar) / <i>S7-plug, S8-plug (swivel PG 13.5)</i>
Elektrischer Anschluss / <i>Electrical connection</i>	2-polig / <i>2-poles</i>
Temperatursensor / <i>Temperature sensor</i>	Pt 100, Pt 1000

1.20.4 Mechanical Drawing

Art. No.: S24137011K / S24137012K
Order Code: 271100100 / 271200100



S7-plug



S8-plug



Variopin

1.20.5 Order information

	Artikel Nr. / Article No.	Beschreibung / Description
Gruppe / Group	271	Zirkon® Temperatur
Temperatursensor / Temperature sensor	100	Pt 100
	200	Pt 1000
Anschluss / Connection	0	Kein / None
	1	S8-Stecker (PG 13,5 - drehbar) / S8-plug (PG 13.5 - swivel)
	3	S7-Stecker / S7-Plug
	7	Festangeschlossenes Kabel / Fixed cable
	9	Sonderanfertigung / Special
Länge / Length	0	120 mm
	2	160 mm
	4	225 mm
	9	Sonderlänge / Special length
Sonstiges / Special	0	Kein / None

**Note!**

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.

Price on request.

1.20.6 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S24137000K	271100320	Temperature sensor: Pt 100, S7-plug, 160 mm
S24137011K	271100100	Temperature sensor: Pt 100, S8-plug (swivel PG 13.5), 120 mm
S24137012K	271200100	Temperature sensor: Pt 100, S8-plug (swivel PG 13,5), 120 mm

1.21 Zirkon® Gas

1.21.1 Description



Zirkon® Gas Cl₂

Art. No: S29111001K



Zirkon® Gas O₃

Art. No: S29111002K



Zirkon® Gas ClO₂

Art. No: S29111011K

Kuntze Gas Sensors are amperometric sensors for the detection of chlorine gas. The matching fitting Ne GSH allows for an easy installation of the gas sensor.

Benefits

- Short response times
- High reliability
- Simple start-up due to printed calibration value

1.21.2 Applications



Ambient Air
Monitoring



Warehouse
Exhaust Air

1.21.3 Technical data

Messparameter Zirkon® Gas Cl₂ - S29111001K / Measuring parameters Zirkon® Gas Cl₂ - S29111001K

Chlor / Chlorine 0.. 20 ppm*
*Der Messbereich des Geräts kann abweichen. /
Range of measurement device can deviate.

Prozessbedingungen / Process conditions

Ansprechzeit (T ₉₀) / Response time (T ₉₀)	< 60 s
Temperatur / Temperature	-20..40 °C / -4..104 °F
Luftfeuchtigkeit / Humidity	15.. 90 % rH (nicht kondensierend / <i>uncondensing</i>)
Lagerdauer / Storage period	Max. 6 Monate in Container, bei +4.. 10 °C / Max. 6 months in container, at +4... 10 °C / 39.2.. 50 °F
Einfluss der Feuchtigkeit / Influence of humidity	Kein Effekt auf den Nullpunkt / No effect on the zero point
Luftdruck / Air pressure	800-1200 hPa

Querempfindlichkeit Chlorgas-Sensor bei 20 °C / Cross-sensitivity Chlorine gas at 20 °C

Gas	Konzentration / Concentration	Abgelesener Wert / Measured value
Kohlenmonoxid / Carbon monoxide	100 ppm	0 ppm
Chlordioxid / Chlorine Dioxide	1 ppm	0.5 ppm
Wasserstoff / Hydrogen	3000 ppm	0 ppm
Schwefelwasserstoff (H ₂ S)*/ Hydrogen sulfide (H ₂ S) *	20 ppm	-2 ppm*
Isopropanol / Isopropanol	600 ppm	0 ppm
Nitrogen Dioxide / Stickstoffdioxid	10 ppm	< 1 ppm
Schwefeldioxid / Sulphur Dioxide	10 ppm	0 ppm

Ozon /
Ozone

0.25 ppm

0.2 ppm

Chemischer Filter /
Chemical Filter

Nein /
None

* Eine kontinuierliche Messung im ppm-Bereich kann den Sensor blockieren. /
Continuous exposure at ppm level might blind the sensor.



Note!

The influencing factor can vary from sensor to sensor and over the life span of the individual sensor. No claim to completeness of the data, the sensors can potentially exhibit cross sensitivity to other gases.

1.21.4 Technical data

Messparameter Zirkon® Gas O₃ - S29111002K / Measuring parameters Zirkon® Gas O₃ - S29111002K

Ozon / Ozone 0.. 1 ppm*
*Der Messbereich des Geräts kann abweichen. /
Range of measurement device can deviate.

Prozessbedingungen / Process conditions

Ansprechzeit (T₉₀) /
Response time (T₉₀) < 60 s

Temperatur /
Temperature -20..40 °C /
-4..104 °F

Luftfeuchtigkeit /
Humidity 15.. 90 % rH (nicht kondensierend / *uncondensing*)

Lagerdauer /
Storage period Max. 6 Monate in Container, bei +4.. 10 °C /
Max. 6 months in container, at +4... 10 °C / 39.2.. 50 °F

Einfluss der Feuchtigkeit /
Influence of humidity Kein Effekt auf den Nullpunkt /
No effect on the zero point

Luftdruck /
Air pressure 800-1200 hPa

Querempfindlichkeit Ozon Gas Sensor bei 20 °C / Cross sensitivity Ozone gas sensor at 20 °C

Gas	Konzentration / Concentration	Abgelesener Wert / Measured value
Kohlenmonoxid / Carbon monoxide	100 ppm	0 ppm
Chlordioxid / Chlorine dioxide	1 ppm	1.5 ppm (tbc)
Wasserstoff / Hydrogen	3000 ppm	0 ppm
Stickstoffdioxid / Nitrogen dioxide	10 ppm	6 ppm
Schwefelwasserstoff (H ₂ S) * Hydrogen sulfide (H ₂ S) *	20 ppm	-1.6 (tbc)*
Isopropanol / Isopropanol	600 ppm	0 ppm
Chlor / Chlorine	1 ppm	1.2 ppm (tbc)

Chemische Filter /
Chemical Filter

Keine /
None

Signale unterhalb der Basislinie werden mit 0 angegeben. / *Signals below baseline are stated as 0*
tbc= muss noch bestätigt werden / *tbc = to be confirmed*

* Dauerhafte Exposition im ppm-Bereich kann den Sensor blockieren. / *Continuous exposure at ppm level might blind the sensor.*



Note!

The influencing factor can vary from sensor to sensor and over the life span of the individual sensor. No claim to completeness of the data, the sensor can potentially exhibit cross sensitivity to other gases.

1.21.5 Technical data

Messparameter Zirkon® Gas ClO₂ - S29111011K / Measuring parameters Zirkon® Gas ClO₂ - S29111011K

Chlordioxid / <i>Chlorine dioxide</i>	0.. 1 ppm* *Der Messbereich des Geräts kann abweichen. / Range of measurement device can deviate.
---------------------------------------	---

Prozessbedingungen / *Process conditions*

Ansprechzeit (T ₉₀) / <i>Response time (T₉₀)</i>	< 90 s
Temperatur/ <i>Temperature</i>	-20..40 °C / -4..104 °F
Luftfeuchtigkeit/ <i>Humidity</i>	15.. 90 % rH (nicht kondensierend / <i>uncondensing</i>)
Lagerdauer / <i>Storage period</i>	Max. 6 Monate in Container, bei +4.. 10 °C / <i>Max. 6 months in container, at +4... 10 °C / 39.2.. 50 °F</i>
Einfluss der Feuchtigkeit/ <i>Influence of humidity</i>	Kein Effekt auf den Nullpunkt / <i>No effect on the zero point</i>
Luftdruck / <i>Air pressure</i>	800-1200 hPa

Querempfindlichkeit Chlordioxid Gas Sensor bei 20 °C / Cross sensitivity Chlorine dioxide gas sensor at 20 °C

Gas	Konzentration / <i>Concentration</i>	Abgelesener Wert / <i>Measured value</i>
Kohlenmonoxid / <i>Carbon monoxide</i>	100 ppm	0 ppm
Wasserstoff / <i>Hydrogen</i>	3000 ppm	0 ppm
Stickstoffdioxid / <i>Nitrogen dioxide</i>	10 ppm	6 ppm (tbc)
Schwefelwasserstoff (H ₂ S)* <i>Hydrogen sulfide (H₂S) *</i>	20 ppm	-5 ppm (tbc)**
Isopropanol / <i>Isopropanol</i>	600 ppm	0 ppm
Chlor / <i>Chlorine</i>	1 ppm	0.5 ppm*

Ozon / Ozone	0.25 ppm	0.15 ppm
Chemische Filter / Chemical Filter		Keine / None

* Signale unterhalb der Basislinie werden als 0 gestartet / *Signals below baseline are started as 0*

tbc = muss noch bestätigt werden / *tbc = to be confirmed*

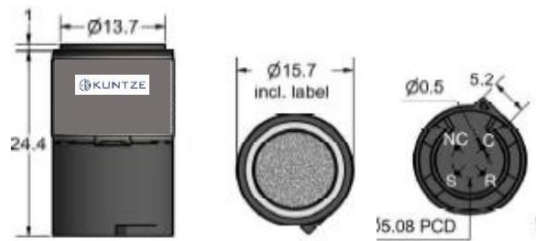
*1 bis 5 ppm Chlor können zur Querkalibrierung verwendet werden (bbc) / **1 to 5 ppm chlorine may be used for cross calibration (tbc)*

** Eine kontinuierliche Messung im ppm-Bereich kann den Sensor blockieren. / *** Continuous exposure at ppm level might blind the sensor.*



Note!

The influencing factor can vary from sensor to sensor and over the life span of the individual sensor. No claim to completeness of the data, the sensor can potentially exhibit cross sensitivity to other gases.

1.21.6 Mechanical drawing

Art. No.: S29111001K: Zirkon[®] Gas Cl₂

Art. No.: S29111002K: Zirkon[®] Gas O₃

Art. No.: S29111011K: Zirkon[®] Gas ClO₂

1.21.7 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
S29111001K	Zirkon® Gas Cl ₂	Sensor for measuring Chlorine gas
S29111002K	Zirkon® Gas O ₃	Sensor for measuring Ozone
S29111011K	Zirkon® Gas ClO ₂	Sensor for measuring Chlorine dioxide

1.22 Zirkon® Conductivity LE44 Pt

1.22.1 Description



LE44 PT



LE44 PT 4SCR

2-electrode conductivity sensor for electrical conductivity with integrated temperature sensor Pt100. The sensor is available as flow version with male thread 3/4" and 4-pole angular plug connector (Hirschmann) for electrical connection or as immersion version with 10 m fixed cable and 1/2" male thread. For both cases the electrodes are made of stainless steel (concentric electrodes, material number 1.4571). In case of the flow version the head is PVDF and for the immersion version it is PP.

1.22.2 Applications



Industrial Water Drinking Water Process Water

1.22.3 Technical data**Messparameter / Measuring range**

Leitfähigkeit (konduktiv) /	0,000.. 2,000 μS / cm (c= 0,05 /cm)
Conductivity (conductive)	0,00.. 20,00 μS / cm (c= 0,05 /cm)
	0,0.. 200,0 μS / cm (c= 0,05 /cm)
	0,000.. 2,000 mS / cm (c= 0,20 /cm)
	0,00.. 20,00 mS / cm (c= 1,00 /cm)

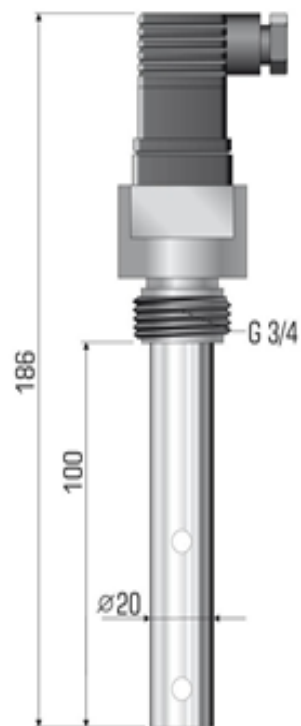
Prozessbedingungen / Process conditions

Druck /	16 bar bei 25 °C /
Pressure	16 bar at 25 °C / 232 psi at 77 °F
Temperatur /	Steckeranschluss 0.. +135 °C /
Temperature	Kabelanschluss 0.. +90 °C /
	Plug connection: 0.. +135 °C / 32.. 275 °F,
	Cable Connection: 0.. +90 °C / 32.. 194 °F

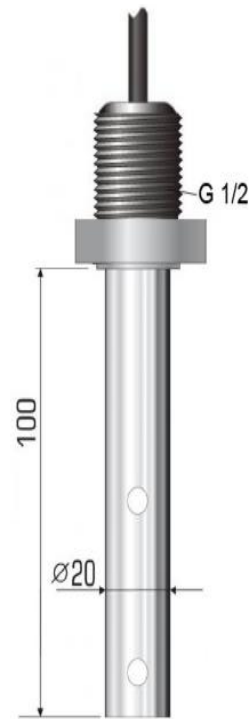
Konstruktiver Aufbau / Mechanical construction

Schaftmaterial /	PVDF - Steckervariante, PP – Kabelvariante /
Shaft material	Plug version: PVDF, cable version: PP
Elektrodenmaterial /	Edelstahl 1.4571 /
Electrode material	Stainless steel 1.4571
Mechanischer Anschluss /	¾" Außengewinde, Steckerversion,
Process connection	½" Außengewinde, Kabelversion /
	Plug version: ¾" male thread,
	Cable version: ½" male thread
Elektrischer Anschluss /	4 poliger Winkelstecker (Hirschmann),
Electrical connection	10 m fest angeschlossenes Kabel /
	4-poles angular plug (Hirschmann),
	10 m connected cable
Temperatursensor /	Pt 100
Temperature sensor	

1.22.4 Mechanical drawing



LE44 PT



LE44 PT 4SCR

1.22.5 Storage version

Artikel. Nr. / Article No.	Typ / Type	Beschreibung / Description
26125252K	LE44 Pt, c=0,05	Conductive conductivity sensor (0.. 2; 0.. 20; 0.. 200 μ S/cm)
26125253K	LE44 Pt, c=0,20	Conductive conductivity sensor (0.. 2 mS/cm)
26125254K	LE44 Pt, c=1,00	Conductive conductivity sensor (0.. 20 mS/cm)
26125255K	LE44 Pt 4SCR, c=0,20	Conductive conductivity sensor (0.. 2 mS/cm) with 10 m fixed cable
26125256K	LE44 Pt 4SCR, c=1,00	Conductive conductivity sensor (0.. 20 mS/cm) with 10 m fixed cable
26125257K	LE44 Pt 4SCR, c=0,05	Conductive conductivity sensor (0.. 2; 0.. 20; 0.. 200 μ S/cm) with 10 m fixed cable

1.23 Zirkon® Conductivity IL 15

1.23.1 Description



IL 15

Zirkon® Conductivity IL 15 is a sensor for the inductive conductivity measurement in Polypropylene (PP) with two internal, circular measuring coils. The sensor is delivered with 6 m cable and internal temperature sensor.

Benefits

- Corrosion resistant
- Dirt resistant
- Small and robust construction

1.23.2 Applications



Industrial Water Drinking Water Process Water Cooling Water

1.23.3 Technical data**Messparameter / Measuring range**

Leitfähigkeit (induktiv) /	0.000.. 2.000 mS/cm
Conductivity (inductive)	0.00.. 20.00 mS/cm
	0.0.. 200.0 mS/cm
	0.. 2000 mS/cm

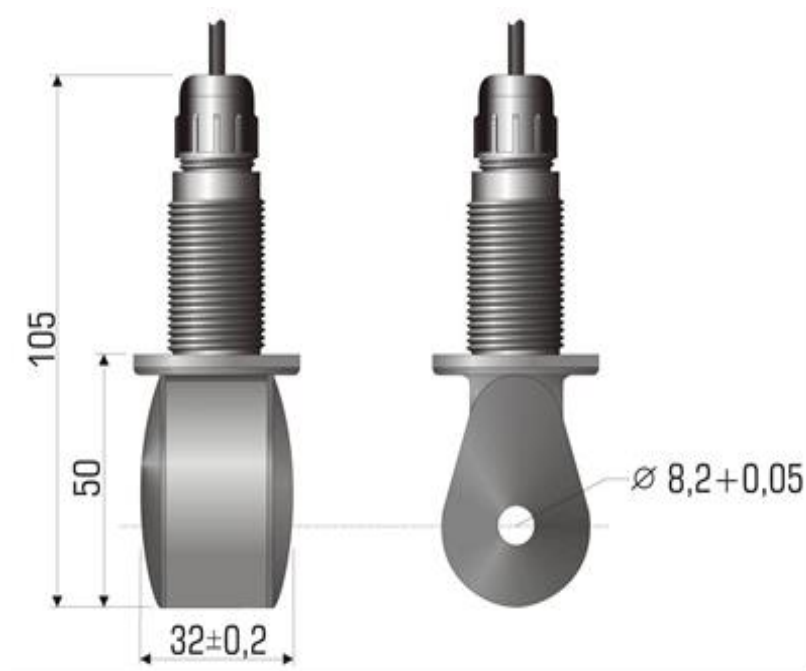
Umgebungsbedingungen / Process conditions

Druck /	10 bar bei 20 °C /
Pressure	10 bar at 20 °C / 68 °F
Temperatur /	< 90 °C / < 194 °F
Temperature	

Konstruktiver Aufbau / Mechanical construction

Schaftmaterial /	PP
Shaft material	
Mechanischer Anschluss /	G1/2 Außengewinde /
Process connection	G1/2 male thread
Temperatursensor /	NTC
Temperature sensor	

1.23.4 Mechanical drawing



IL 15

1.23.5 Storage version

Artikel Nr. / Article No.	Typ / Type	Beschreibung / Description
26164025K	Zirkon® Conductivity IL 15	Inductive conductivity sensor, 6 m fixed cable

2. Index

Z

Zirkon® Gas Ozone 171
Zirkon® Conductivity IL 15 182
Zirkon® Conductivity LE44 P 177
Zirkon® DIS 5
Zirkon® DIS Pool 18
Zirkon® DIS Total 12
Zirkon® Gas 168
Zirkon® Gas Chlorine 169
Zirkon® Gas Chlorine dioxide 173
Zirkon® pH Coating 73
Zirkon® pH Fluoride 64
Zirkon® pH Pool 81
Zirkon® pH Process 44

Zirkon® pH Process HT 88
Zirkon® pH Process Refill 56
Zirkon® pH Pure 36
Zirkon® pH Universal 26
Zirkon® pH Wide Body 96
Zirkon® Redox Wide Body 138
Zirkon® REF 148
Zirkon® REF Process Refill 155
Zirkon® Rx 107
Zirkon® Rx Pool 131
Zirkon® Rx Process 117
Zirkon® Rx Process Refill 124
Zirkon® Temperatur 162



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