

## Conductivity Measuring Cells

by means of typical glass electrode design



The conductivity measuring cells can be individually adjusted to the specific task and conditions by an extensive modular configuration system including various metering ranges, different available types of electrical connections as well as a variable installation length. Thus, in all fields of industrial process technology, monitoring and laboratory applications universal and accurate conductivity measurements are available. Furthermore, the typical electrode design enables the installation in usual flow-through armatures for electrodes so that combined pH and conductivity measurements can be conducted by means of a single armature.

### Features

- glass-platinum conductivity measuring sensor
- 3-ring sensor design
- two different metering ranges and cell constants selectable
- automatic temperature compensation by PT100, PT1000 or NTC possible
- high accuracy and long-term stability
- low maintenance required in combination with long service life
- robust, shock-protected design
- installation length variable, minimum immersion length 50 mm
- universally applicable at temperatures up to +90 °C
- electrical connection by threaded plug head connector PG 13.5, plug head connector S+ or fixed connection
- appropriate for installation in flow-through armatures

## Application fields

- universal conductivity measurements for industrial applications and laboratories
- preferred operation in waste water treatment, water purification as well as exhaust air plants

## Technical data

Parameter	Description
measuring cell material	platinum (99.99 Pt)
measuring cell design	3-ring
metering range	100 $\mu$ S/cm to 10 mS/cm, cell constant K = 1.0 cm <sup>-1</sup> $\pm$ 10 %
	100 $\mu$ S/cm to 200 mS/cm, cell constant K = 10 cm <sup>-1</sup> $\pm$ 10 %
installation length	fabrication according to customer request
shaft diameter	12 mm
shaft material	normal-purpose glass
temperature compensation	PT100
	PT1000
	NTC
electrical connection	threaded plug head connector PG 13.5
	plug head connector S+
	fixed connection
permitted temperature range	0 to +90 °C
max. permitted pressure	6 bar

## Order options

measuring parameter		measuring range		electrical connection			design measuring system		shaft properties		installation length		temperature compensation			
LS		10		PA			P3		D		12		P			
Order example	conductivity	LS	100 $\mu$ S/cm to 10 mS/cm, K = 1.0 cm <sup>-1</sup>	1	no thread	connector	plug head connector S+ <sup>1</sup>	S+	3-ring-platinum	P3	normal-purpose glass	D	variable, indication in cm	XX	PT100	P
			100 $\mu$ S/cm to 200 mS/cm, K = 10.0 cm <sup>-1</sup>	10			plug head connector S+, 4-pin <sup>2</sup>	S4							PT1000	L
	fixed connection, X=cable length in m, measuring transducer with...	no connector <sup>1</sup>	FX	NTC		N										
		no connector <sup>2</sup>	AX													
		BNC connector straight <sup>1</sup>	FXG													
		BNC connector angled <sup>1</sup>	FXB													
		DIN connector <sup>1</sup>	FXD													
		threaded plug head connector PG 13.5 <sup>1</sup>	PA													
	thread PG 13.5	connector	threaded plug head connector PG 13.5, 4-pin <sup>2</sup>	C4												
			no connector <sup>1</sup>	EX												
		no connector <sup>2</sup>	EAX													
		BNC connector straight <sup>1</sup>	EXG													
		BNC connector angled <sup>1</sup>	EXB													
		DIN connector <sup>1</sup>	EXD													

<sup>1</sup>electrode without automatic temperature compensation  
<sup>2</sup>electrode with automatic temperature compensation

In addition to the displayed order options special customized designs are certainly possible. Please contact us!

The necessary accessories such as connecting cables or armatures can be found in the respective technical data sheets.

Specifications are subject to modifications.