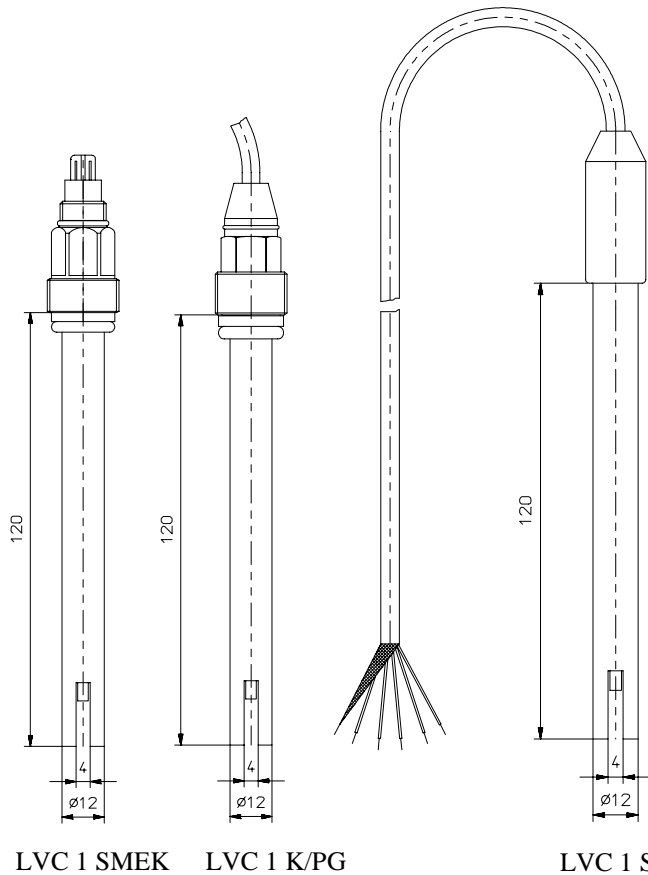


Conductivity Cell LVC 1

04/05



Dimensions in mm

The conductivity sensor LVC 1 combines enhanced 2-electrode technology with rugged design in a 12 mm plastic body. This cell features wide measuring range, low maintenance and easy cleaning, ideal for universal application in on-line monitoring as well as in connection with pocket and field instrumentation.

In comparison with conventional measuring cells with platinum electrodes, the LTC 1 offers a lot of technical advantages:

- Linearity in a measuring range from 10 $\mu\text{S}/\text{cm}$ to 10 mS/cm
 - Low measuring faults because of fouling contaminants and polarization effects
 - Long-term stable cell constant due to abrasion-resistant parallel graphite electrodes
 - Integrated temperature sensors for automatic temperature compensation with extremely short response time
- LVC 1/24: without temperature sensor
LVC 1/23: with temperature sensor Pt 1000
LVC 1/22: with temperature sensor Pt 100
LVC 1/21: with temperature sensor NTC (standard NTC 30 k Ω)

Plug head and cable connections:

- LVC 1 SMEK: Multipin PG 13.5 threaded SixPlug plug head; accompanying cable connection K 18, max. 10 m
- LVC 1 K/PG: fixed heavy duty cable, length 5 m, stripped ends without connector and in addition sensor stem equipped with hex nut PG 13.5
- LVC 1 S: special version with fixed heavy duty cable and customized plug or stripped tinned ends

Specifications

Sensor stem	\varnothing 12 mm, plastic, black; optional stem equipped with free turnable hex nut PG 13.5
Stem length	immersion or stem length 120 mm (special dimensions on request)
Cable connection	PG 13.5 threaded SixPlug (SMEK) multipin plug head; multi-wire screened connection cable \varnothing about 5 mm; max. 10 m
Measuring range	about 10 $\mu\text{S}/\text{cm}$ up to 10 (100) mS/cm , dependent from frequency and measuring voltage
Temperature range	-5... 80 $^{\circ}\text{C}$ (100 $^{\circ}\text{C}$ for short time)
Temperature sensor	incorporated Pt 1000, Pt 100 or NTC in a stainless steel tube (material 1.4301) for automatic temperature compensation and temperature measurement
Pressure	max. 6 bar above atmospheric in accordance with mounting equipment
Cell constant	1 $\text{cm}^{-1} \pm 20\%$
Electrode material	special graphite sealed in epoxy
Storage	within the protective cap filled with distilled water
Sign	neutral or with custom specific label
Delivery	with quality certificate and short operating instruction

Sensortechnik Meinsberg GmbH

Quality System certified to DIN EN ISO 9001

Kurt-Schwabe-Straße 6

D-04720 Ziegra-Knobelsdorf /GERMANY

Internet: www.meinsberg.de

Tel. +49 34327 623-0

Fax +49 34327 623-79

