



Type SLI04-6-S

modular @ analyse

Intelligent Modular conductivity measuring unit

Advanced features

- ▶ Inductive measuring system for Conductivity and concentration measurement in systems and processes
- ▶ For cost-effective phase separation and simple analysis tasks
- ▶ Up to 4 freely stored concentration curves, Display in percent
- ▶ Display of conductivity, concentration, temperature
- ▶ Measuring ranges freely configurable, via illuminated graphic display or free PC software "SeliSoft"
- ▶ Sensor checking and documentation using conductor loops, PC and "SeliSoft"
- ▶ Very compact and robust version in hygienic design
- ▶ Stainless steel housing
- ▶ Extremely fast response times:
Temperature: $t_{90} < 9 \text{ sec.}$
Conductivity: $t_{90} < 1 \text{ sec. (Damping=1)}$
- ▶ FDA conformal, EHEDG-certified

Technical features

- ▶ Analogue output for conductivity and temperature, each 4...20 mA, IO-Link
- ▶ 14 basic measuring ranges
- ▶ 4 measuring ranges switchable externally
- ▶ Intelligent temperature compensation
- ▶ Temperature application range:
Medium (steady): 0 °C up to 100 °C
Medium max. (1h) 0 °C up to 150 °C
- ▶ modular process connection system
- ▶ Installation in pipings from nominal size DN 40

Aufbau und Wirkungsweise

The SLI 04 is a extremely compact measuring system for inductive conductivity measurement.

By using a combination of high grade steel and peek, the sensor ist extremely robust and fast!



Example modular process connections



Look data sheet process connections

modular @ process

Favoured fields of application are e.g.:

- ▶ Food technologie
- ▶ Chemical + Pharmaceutical industrie
- ▶ Medical technology
- ▶ Enviromental technology

- Media + phase segregation, concentration adjustment
- Intensification of CIP-equipment
- Monitoring of the product quality
- Detection of produktion remnants in the cleaning return



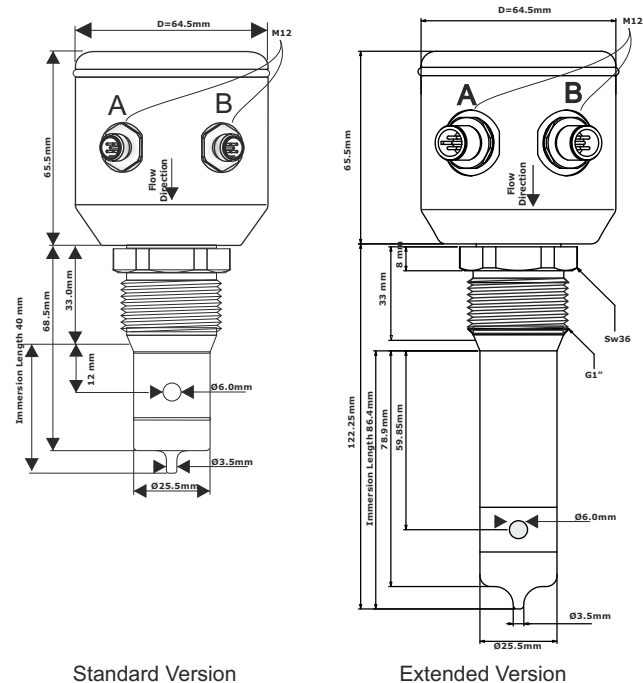
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Data

Supply Voltage	18...32 VDC
Domestic Electricity	Max. 100mA (pulsed);
Display	parameterization, display
User Interface	3 Keys
Feature	Parametrizable via PC-Software „SeliSoft“ or IO-link
Temperature Coefficient	Adjustable for every measuring range: 0...10%/K
Measuring Range Temperature	-20°C...150°C
Connection Type	2x M12 plug
Outputs	2x 4-20mA + IO-link
Connections internal	none
Process Connection	G 1" Hygienic Connect (elastomer free sealant)
Material	SensorDip Peek/1.4404(316L) Housing/ Pressure Connect. 1.4305
Approvals	EHEDG-certified, 3A in progress
Protection Class	IP69K; IP68
Ambient Temperature	-20°C...60°C
Process Temperature	0°C ...100°C; 150°C
Operating Pressure	16 bar
Meas.Range Conductivity	div. Meas.Ranges external switchable; 0...0.5mS/cm up to 0...999mS/cm

Dimensional Drawing



Standard Version

Extended Version

Specifications Conductivity

Accuracy	+/-2% accumulated val. +/- 20 µS/cm
Reproducibility	<1% of measured value
Long time stability	+/- 0,5% of accumulated value
Response time	t90< 1 sec. (Damping=1)
Resolution of conductivity:	
<1 mS/cm	1µS/cm
1...10mS/cm	10µS/cm
10...100mS/cm	100µS/cm
100...999 mS/cm	1000µS/cm

Specifications Temperature

Resolution	0,1°C
Repeatability	0,2% of measured value
Response time	t90<9 sec.
4...20 mA Analogue Outputs:	
Temperature drift	<(100...150 ppm/°C)
Accuracy	0,1% of meas. value; +/- 10µA
Range 20...50°C	<+/-0,2°C
Range-20...150°C	<+/-1,5°C
Response time	t90 < 1 seconds
Burden max.	500 Ohm

Installation

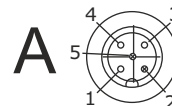
The device may only be installed in our modular process connection system „modular@process“.

SLI04-	0	6	-		-	
	0	6				
High Grade Steel Connecting Head						
With connecting head and 2xM12 screw						
Version						
Standart (EHEDG, 3A in preparation)				S		
Extra charge extended sensor version				V		
Parameter Module						
with integrated control + indicator display, inspection cover					-	
without integrated control + indicator display, closed cover					0	

Electrical Connection

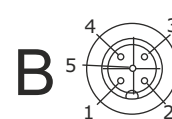
Plug: 2 x M12 5-pole;
no screw terminal provided

Supply



- 1: 18...32 VDC + (brown)
- 2: TX (only contactable with Prog.-Adapter)
- 3: GND - (supply) (blue)
- 4: IO-Link-Communication (black)
- 5: RX (only contactable with Prog.-Adapter)

In - Out



- 1: OUT / 4...20mA / conductivity (brown)
- 2: OUT / 4...20mA / temperature (white)
- 3: DIGI - In1 (blue)
- 4: DIGI - IN2 (black)
- 5: GND (OUT / IN) (grey)

Accessories (optional)



PC USB Interface (SMW-PA-M12)



M12 cableadapter for connection to PC USB Interface (ST-M12-Y-AD)



Terminal Box KGS-...



Conductor loop set (FP-00357) for simulation of conductivity and test of the sensor

Stand 04/2024