



## Type SLI03-6-S

**modular @ analyse**

Intelligent Modular conductivity measuring unit

### Advanced features

- ▶ Inductive Measuring system for conductivity measurement in processes
- ▶ New small compact construction
- ▶ Heavy duty in hygienic design
- ▶ Effective range free configurable, via display or software
- ▶ Housing completely of high-grade steel 1.4305
- ▶ LCD display for conductivity, temperature and handling
- ▶ Extremely fast response time  $t_{90} < 9\text{sec.}$
- ▶ FDA, EHEDG-conformal

### Technical features

- ▶ Analogue output for conductivity and temperature, each 4...20 mA
- ▶ 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 prozess connection system
- ▶ Installation in pipings from nominal size DN 40

### Aufbau und Wirkungsweise

The SLI 03 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!

It is available in the following mechanical versions:

- modular, hygienic prozess connection with polymer-free sealing system G1" "modular@process"



### Beispiele modularer Prozessanschlüsse



Varivent

Triclamp

Milchrohr

Siehe Datenblatt Prozessanschlusstechnik

**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

#### ATTENTION!

At lower deviation of dew points water condensation is possible, that can destroy the sensor. At stress with change of temperatures, e. G. a cold water jet on the hot sensor, it can come to absorption of fluids in to the sensor. (Requirements cf. DIN EN 60068-2-14) At applications with dew point, temperature shock or thermal shock stresses we recommend a part or better to full grouting.

The tightness classification after IP68 does not mean that these parts are suitable! for applications with lower deviation of dew point or temperature shock. (DIN 60068-2-14)

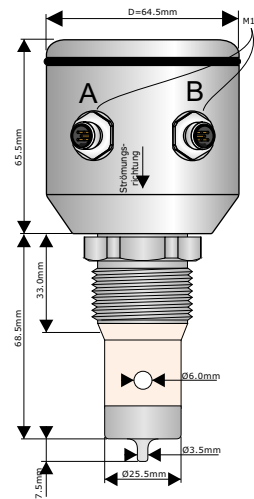
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### Elektrical Data

Supply Voltage	18...32 VDC
Domestic Electricity	Max. 100mA (pulsed);
Display	parameterization, display
User Interface	3 Keys
Feature	Parametrizable via PC-Software
Application	Low cost phase separation and simple analysis tasks
Accuracy	2% from final value
Temperature Coefficient	Adjustable for every measuring range: 0...10%/K
Measuring Range Temperature	-20°C...150°C
Accuracy Temperature	0.5°C see specification
Connection Type	2x M12 plug
Outputs	2x 4-20mA
Connections internal	none
Process Connection	G1"
Material	1.4305 Peek 1.4404
Approvals	EHEDG; 3A in progress
Protection Class	IP69K; IP68
Ambient Temperature	-20°C...60°C
Process Temperature	0°C ...100°C; 150°C
Operating Pressure	10 bar
Meas.Range Conductivity	div. Meas.Ranges external switchable; 0...0.5mS/cm up to 0...999mS/cm
Resolution Conductivity	see specification

### Dimensional Drawing



### Materials

Unit	Material
Sensor DIP	Peek / 1.4404 (316L)
Housing / Nozzle	1.4305

### Installation

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

### OrderCode SLI03

SLI03-06-

#### High-Grade-Steel Connecting Head

With high grade steel connecting head and 2xM12 plug

#### Version

Standard

Extended Version

S  
V

### Electrical Connection

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

#### Supply

- A**
- 
- 1: 18...32 VDC + (brown)
  - 2: TX (only contactable with Prog.-Adapter)
  - 3: GND - (supply) (blue)
  - 4: NC
  - 5: RX (only contactable with Prog.-Adapter)

#### In - Out

- B**
- 
- 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