

PRODUCT INFORMATION

PROCESS ANALYSIS
ELECTROCHEMISTRY



Contacting conductivity sensor for pure medium: 3400 sc family

- Large measuring range
- High precision
- Wide application range
- Stainless steel design
- Versatile mounting styles
- Can be combined as required with other SC probes

High quality probes

The high quality special steel or graphite probes of the 3400 sc family are available with three different cell constants, namely 0.01 cm^{-1} , 0.1 cm^{-1} and 1 cm^{-1} . They cover a wide measuring range from $0.01 \mu\text{S/cm}$ to 2 mS/cm . The specific cell constant of each probe is determined in conformity with ISO 7888/ ASTM D 1125 and entered in the SC controller when it is first taken into operation (HACH LANGE DRY-CAL* method). The objective is to guarantee maximum measurement accuracy.

Versatile applications

Thanks to the wide range of 3400 sc models available, the applications spectrum extends from drinking water to ultrapure water at high temperatures and pressures. Different fitting systems enable measurements to be carried out in pipes and bypasses. Moreover, a sterilizable FDA-approved probe with a Tri Clamp mounting kit is available for the food and pharmaceutical industry. Thanks to the quick disconnect plug, together with digital plug-and-play operation, the probes can be flexibly and simply connected to the SC controllers.



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Technical data

| | 3410 sc | 3411 sc | 3412 sc | 3415 sc | 3416 sc | 3417 sc | 3494 sc* |
|------------------|-----------------------|----------------------|--------------------|-----------------------|----------------------|--------------------|-----------------------|
| Temperature max. | 125°C | | | 150°C | | 150°C | |
| Pressure max. | 10 bar | | | 25 bar | | 25 bar | |
| Cell constant | 0.01 cm ⁻¹ | 0.1 cm ⁻¹ | 1 cm ⁻¹ | 0.01 cm ⁻¹ | 0.1 cm ⁻¹ | 1 cm ⁻¹ | 0.01 cm ⁻¹ |
| Measuring range | 0.01-20 µS/cm | 0.1-200 µS/cm | 1-2,000 µS/cm | 0.01-20 µS/cm | 0.1-200 µS/cm | 1-2,000 µS/cm | 0.01-20 µS/cm |
| Materials | | | | | | | |
| - sensor head | Polyester | Polyester | Polyester | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| - sensor body | Stainless steel | Stainless steel | Graphite | Stainless steel | Stainless steel | Graphite | Stainless steel |
| Ports | 3/4" NPT | | | 3/4" NPT | | Tri Clamp | |

* FDA approved

Ordering information

| DESCRIPTION | ART. NO. |
|--|-----------------|
| 3410 sc sensor | D3410 |
| 3411 sc sensor | D3411 |
| 3412 sc sensor | D3412 |
| 3415 sc sensor | D3415 |
| 3416 sc sensor | D3416 |
| 3417 sc sensor | D3417 |
| 3494 sc* sensor | D3494 |
| SPARE PARTS AND ACCESSORIES | |
| Digital extension cable | |
| - with 5 m | LZX848 |
| - with 10 m | LZX849 |
| - with 15 m | LZX850 |
| - with 20 m | LZX851 |
| - with 30 m | LZX852 |
| - with 50 m | LZX853 |
| Conductivity standard, 1l with 100-1,000 µS/cm (Please specify the desired conductivity value when placing your order) | 25M3A2000-119 |
| SC 100 controller | LXV401 |
| SC 1000 controller | LXV400 + LXV402 |

* FDA approved

HACH LANGE services



Contact us to place an order, request information or receive technical support.



Support on-site by expert sales team.



www.hach-lange.com - up-to-date and secure, with downloads, information and shop.