



**pH Electrode** swiss hand made +

**Conductivity Cells**

**Calibration Buffers**

WATER KITS SUPPLY

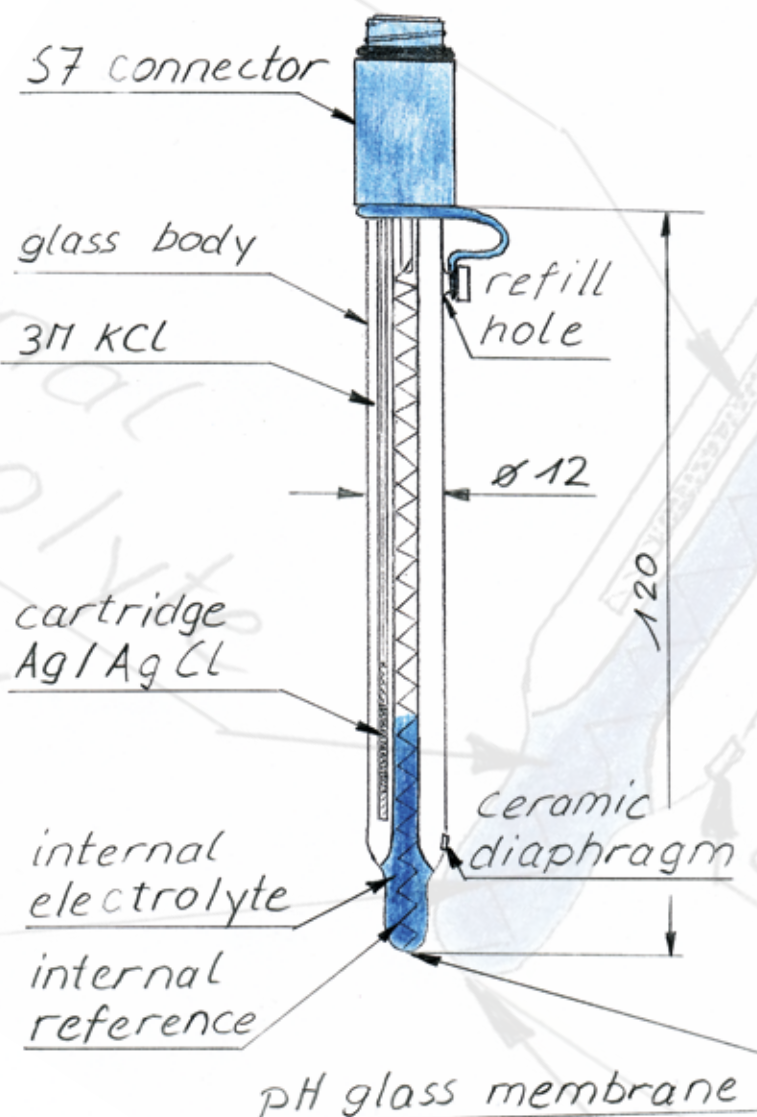
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**Laboratory electrode**

# Electrode selection table

|                                      | Gel | Polymer | Polymer TIP | Standard | Polymer Plast / 201T | Standard HA | Flat | Standard HF | Food | 2 Pore Slim | 2 Pore | 2 Pore F | Food Slim | Semimicro | Micro | Micro P | Micro Special | Flow |
|--------------------------------------|-----|---------|-------------|----------|----------------------|-------------|------|-------------|------|-------------|--------|----------|-----------|-----------|-------|---------|---------------|------|
| <i>Aqueous emulsions</i>             |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Aqueous suspensions</i>           |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Bread, Pasta</i>                  |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Brine</i>                         |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Butter</i>                        |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Cheese</i>                        |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Cosmetics</i>                     |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Cream</i>                         |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Detergents</i>                    |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Fruit juice</i>                   |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Fruits and vegetables</i>         |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Galvanic exhaust</i>              |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Jam</i>                           |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Leather</i>                       |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Mayonnaise</i>                    |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Meat</i>                          |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Milk</i>                          |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Paint (water-based)</i>           |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Paint</i>                         |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Sample containing proteins</i>    |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Sample high alkalinity</i>        |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Sample high temperature*</i>      |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Sample in NMR tubes</i>           |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Sample small volume</i>           |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Sample with Hydrofluoric Acid</i> |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Semi-Aqueous suspensions</i>      |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Soap liquid</i>                   |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Soil</i>                          |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Solutions low ionic strength</i>  |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Surfaces</i>                      |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Titration</i>                     |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Titration, non-aqueous</i>        |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>TRIS buffer</i>                   |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Viscous Samples</i>               |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Water and sewage</i>              |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Water, distilled</i>              |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Water, drinking</i>               |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Wine</i>                          |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |
| <i>Yoghurt</i>                       |     |         |             |          |                      |             |      |             |      |             |        |          |           |           |       |         |               |      |

\* Max 100 °C for a short time

# Quality test certificate

XS electrodes Standard and Flow are provided with a quality certificate attesting and documents the final inspection carried out on each single electrode. Also on the certificate and label shows the serial number of the electrode for a correct traceability (GLP) of the relations of the calibration of the measurement chain.

|                                 |    | <b>QUALITY TEST REPORT</b> |
|---------------------------------|---|----------------------------|
| <b>Electrode model</b>          | <b>Electrode Type:</b><br><i>Elektrodentyp / Elettrodo</i>  | <b>STANDARD</b>            |
|                                 | <b>Product number:</b><br><i>Produktnummer / Codice prodotto</i>  | <b>32200373</b>            |
|                                 | <b>Serial number:</b><br><i>Seriennummer / Numero seriale</i>   | <b>0009</b>                |
| <b>Lot of production</b>        | <b>Batch number:</b><br><i>Chargennummer / Numero di lotto</i>  | <b>444</b>                 |
| <b>Tests results</b>            | <b>Reading in pH 7 buffer (<math>0 \pm 20\text{mV}</math>):*</b><br><i>Lesen im pH 7 / Lettura in pH 7*</i>   | <b>-5 mV</b>               |
|                                 | <b>Reading in pH 4 buffer (<math>174 \pm 20\text{mV}</math>):*</b><br><i>Lesen im pH 4* / Lettura in pH 4*</i>  | <b>169 mV</b>              |
| <b>Technical specifications</b> | <b>Measuring range:</b><br><i>Messbereich / Range di misura</i>   | <b>0...14 pH</b>           |
|                                 | <b>Temperature range:</b><br><i>Temperaturbereich / Range di temperatura</i>  | <b>-10...80 °C</b>         |
|                                 | <b>Temperature sensor:</b><br><i>Temperatursensor / Sensore di temperatura</i>  | <b>-</b>                   |
|                                 | <b>Reference electrolyte:</b><br><i>Bezugselektrolyt / Elettrolita di riferimento</i>   | <b>KCl 3M</b>              |
|                                 | <p><small>* Measurements are performed in Certified Reference Materials.<br/>* Die Messungen werden in zertifizierten Referenzmaterialien durchgeführt.<br/>* Le misurazioni sono eseguite in materiali di riferimento certificati</small></p> <p><small>A change of the measurement values above during storage and use is a normal behavior of the electrochemical sensors.<br/>Eine Änderung der Meßwerte oberhalb während der Lagerung und der Verwendung ist ein normales Verhalten der elektrochemischen Sensoren.<br/>Una variazione dei valori di misura di cui sopra, durante la conservazione e l'uso, è un comportamento normale dei sensori elettrochimici.</small></p> |                            |
| <b>Test date</b>                | <b>Passed Quality Control</b><br><i>Bestanden Qualitätskontrolle / Controllo Qualità Effettuato</i>   | <b>16/12/2014</b>          |
|                                 | <p><small>This document is generated electronically and doesn't require any signature.<br/>Dieses Dokument ist elektronisch erzeugt und erfordert keine Unterschrift erforderlich.<br/>Questo documento è generato elettronicamente e non richiede alcuna firma.</small></p>  |                            |



Electrode box



Indelible internal serial number

# XS Sensor electrodes

Very famous Swiss producer has developed a complete line laboratory pH, Redox and conductivity electrodes, with glass and plastic body. The new XS sensor are available with S7 head or cable fix with BNC or DIN connector plug. For food application many models are equipped with temperature sensor inside for fast temperature compensation.

Some models are designed to help in daily work in GLP condition with indelible internal serial number and certificate are provided with quality test.



Serial number



Blue inner buffer

Special polymer electrolyte combined with high performance reference system generate a complete range of electrodes for food application in special part of this catalogue.

Blue inner buffer provides clear visual of contact with internal pH glass membrane.

All XS sensors line are connectable at all common pHmeters brand in the market. Our customer support are available for every special application request or support for right type electrode indication.

**XS sensor for pH is not only pH electrode is perfect combination for pH measurement with XS pH meters and XS buffer solutions.**

## GENERAL LABORATORY APPLICATION

|                    |                          |
|--------------------|--------------------------|
| Shaft material:    | Glass                    |
| Temperature probe: | No                       |
| Diaphragm:         | Open pore                |
| Reference system:  | Ag/AgCl cartridge        |
| Electrolyte:       | Polymer maintenance free |
| length:            | 120 mm                   |
| Diameter:          | 12 mm                    |



| Model          | Range pH | Temp. °C     | Head         | Note                  | Code            |
|----------------|----------|--------------|--------------|-----------------------|-----------------|
| <b>POLYMER</b> | 0...14   | -10...+80 °C | S7 connector | 1 Diaphragm open pore | <b>32200223</b> |

|                    |                          |
|--------------------|--------------------------|
| Shaft material:    | Glass                    |
| Temperature probe: | No                       |
| Diaphragm:         | Open pore                |
| Reference system:  | Ag/AgCl cartridge        |
| Electrolyte:       | Polymer maintenance free |
| length:            | 120 mm                   |
| Diameter:          | 12 mm                    |



| Model              | Range pH | Temp. °C     | Head         | Note                                      | Code            |
|--------------------|----------|--------------|--------------|---|-----------------|
| <b>POLYMER TIP</b> | 0...14   | -10...+80 °C | S7 connector | 2 Diaphragm open pore for soil pH measure | <b>32200443</b> |



|                    |                      |
|--------------------|----------------------|
| Shaft material:    | Glass                |
| Temperature probe: | No                   |
| Diaphragm:         | Ceramic              |
| Reference system:  | Ag/AgCl              |
| Electrolyte:       | Gel maintenance free |
| length:            | 120 mm               |
| Diameter:          | 12 mm                |



| Model      | Range pH | Temp. °C     | Head         | Note                | Code            |
|------------|----------|--------------|--------------|---------------------|-----------------|
| <b>GEL</b> | 0...14   | -10...+60 °C | S7 connector | General application | <b>32200203</b> |

|                    |                        |
|--------------------|------------------------|
| Shaft material:    | Glass                  |
| Temperature probe: | No – Yes (for model T) |
| Diaphragm:         | Ceramic                |
| Reference system:  | Ag/AgCl cartridge      |
| Electrolyte:       | KCl 3M                 |
| length:            | 120 mm                 |
| Diameter:          | 12 mm                  |



| Model              | Range pH | Temp. °C      | Head         | Note   | Code            |
|--------------------|----------|---------------|--------------|--|-----------------|
| <b>STANDARD</b>    | 0...14   | -10...+100 °C | S7 connector | General application<br><b>serial number/certificate</b>  | <b>32200363</b> |
| <b>STANDARD HA</b> | 0...14   | -10...+100 °C | S7 connector | Minimal alkali error<br><b>serial number/certificate</b> | <b>32200423</b> |
| <b>STANDARD HF</b> | 0...14   | -10...+100 °C | S7 connector | For samples with HF (0,01M/200 mg/l)                     | <b>32200433</b> |

BNC Plug



RCA Cinch Plug



DIN Plug



| Model                   | Range pH | Temp. °C      | Head            | Note  | Code            |
|-------------------------|----------|---------------|-----------------|---|-----------------|
| <b>STANDARD BNC</b>     | 0...14   | -10...+100 °C | Cable fix / BNC | General application<br><b>serial number/certificate</b> | <b>32200263</b> |
| <b>STANDARD DIN</b>     | 0...14   | -10...+100 °C | Cable fix / DIN |   | <b>32200273</b> |
| <b>STANDARD T - BNC</b> | 0...14   | -10...+100 °C | Cable fix / BNC | With temperature sensor NTC 30KΩ<br>plug RCA Cinch      | <b>32200473</b> |
| <b>STANDARD T - DIN</b> | 0...14   | -10...+100 °C | Cable fix / DIN | With temperature sensor NTC 30KΩ<br>plug Banana 4mm     | <b>32200463</b> |



|                    |                   |
|--------------------|-------------------|
| Shaft material:    | Glass             |
| Temperature probe: | No                |
| Diaphragm:         | Teflon sleeve     |
| Reference system:  | Ag/AgCl cartridge |
| Electrolyte:       | KCl 3M            |
| length:            | 120 mm            |
| Diameter:          | 12 mm             |



| Model       | Range pH | Temp. °C     | Head         | Note   | Code            |
|-------------|----------|--------------|--------------|--|-----------------|
| <b>FLOW</b> | 0...14   | -10...+80 °C | S7 connector | Viscous sample and low ion media<br><b>serial number/certificate</b> | <b>32200373</b> |

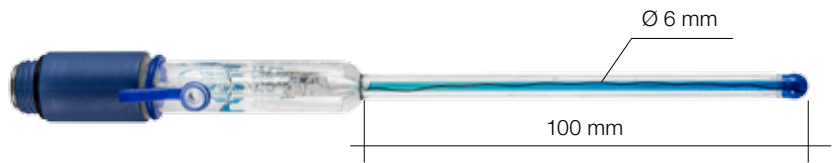


|                    |                          |
|--------------------|--------------------------|
| Shaft material:    | Glass                    |
| Temperature probe: | No                       |
| Diaphragm:         | Teflon with 3 hole       |
| Reference system:  | Ag Coated                |
| Electrolyte:       | Polymer maintenance free |
| length:            | 120 mm                   |
| Diameter:          | 12 mm                    |



| Model       | Range pH | Temp. °C   | Head         | Note                                 | Code            |
|-------------|----------|------------|--------------|--------------------------------------|-----------------|
| <b>FLAT</b> | 0...14   | 0...+60 °C | S7 connector | For surface measurements e. g. paper | <b>32200413</b> |

|                    |                   |
|--------------------|-------------------|
| Shaft material:    | Glass             |
| Temperature probe: | No                |
| Diaphragm:         | Ceramic           |
| Reference system:  | Ag/AgCl cartridge |
| Electrolyte:       | KCl 3M            |
| length:            | 100 mm            |
| Diameter:          | 12 mm / 6 mm      |



| Model             | Range pH | Temp. °C    | Head         | Note                   | Code            |
|-------------------|----------|-------------|--------------|------------------------|-----------------|
| <b>SEMI MICRO</b> | 0...14   | 0...+100 °C | S7 connector | Test tube measurements | <b>32200383</b> |



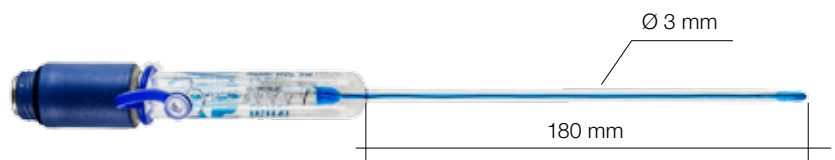
|                    |                       |
|--------------------|-----------------------|
| Shaft material:    | Glass                 |
| Temperature probe: | No                    |
| Diaphragm:         | Ceramic               |
| Reference system:  | Ag/AgCl cartridge     |
| Electrolyte:       | KCl 3M / Glycerin KCl |
| length:            | 60 mm                 |
| Diameter:          | 12 mm / 3 mm          |



| Model          | Range pH | Temp. °C    | Head         | Note  | Code            |
|----------------|----------|-------------|--------------|---|-----------------|
| <b>MICRO</b>   | 0...14   | 0...+100 °C | S7 connector | Electrolyte KCl 3M<br>small volume sample <2 ml                       | <b>32200213</b> |
| <b>MICRO P</b> | 0...14   | 0...+100 °C | S7 connector | Electrolyte Glycerin KCl<br>small volume sample <2 ml<br>with protein | <b>32200253</b> |



|                    |                   |
|--------------------|-------------------|
| Shaft material:    | Glass             |
| Temperature probe: | No                |
| Diaphragm:         | Ceramic           |
| Reference system:  | Ag/AgCl cartridge |
| Electrolyte:       | KCl 3M            |
| length:            | 180 mm            |
| Diameter:          | 12 mm / 3 mm      |



| Model                | Range pH | Temp. °C    | Head         | Note                | Code            |
|----------------------|----------|-------------|--------------|---------------------|-----------------|
| <b>MICRO SPECIAL</b> | 0...14   | 0...+100 °C | S7 connector | Measure in NMR tube | <b>32200453</b> |

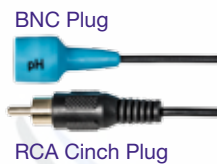
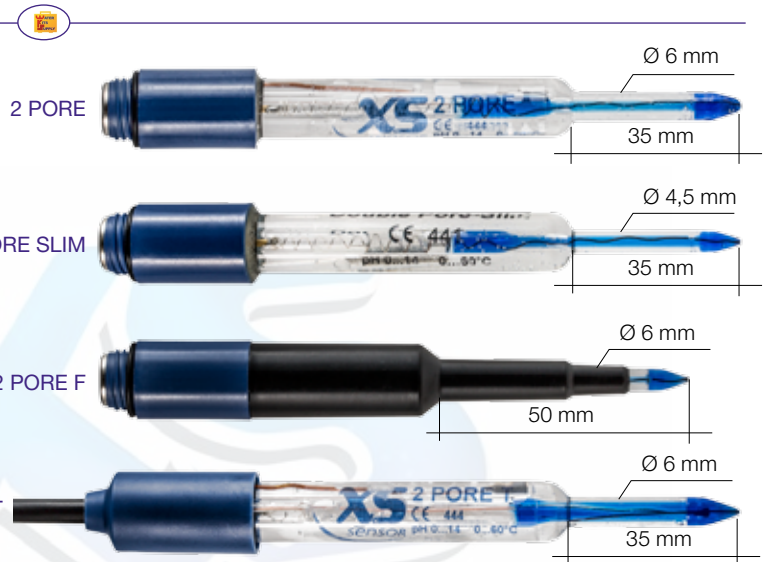
## FOOD MEASUREMENTS APPLICATION

|                    |                      |
|--------------------|----------------------|
| Shaft material:    | Glass                |
| Temperature probe: | No                   |
| Diaphragm:         | 3 ceramic diaphragms |
| Reference system:  | Ag/AgCl cartridge    |
| Electrolyte:       | Glycerin KCl         |
| length:            | 120 mm               |
| Diameter:          | 12 mm                |



| Model       | Range pH | Temp. °C      | Head         | Note                     | Code            |
|-------------|----------|---------------|--------------|--------------------------|-----------------|
| <b>FOOD</b> | 0...14   | -10...+100 °C | S7 connector | Glycerin KCl electrolyte | <b>32200393</b> |

|                    |   |
|--------------------|---|
| Shaft material:    | Glass – POM/Glass (F model)                 |
| Temperature probe: | No – Yes (T model)                          |
| Diaphragm:         | 2 diaphragms open pore                      |
| Reference system:  | Ag Coated                                   |
| Electrolyte:       | Polymer maintenance free                    |
| length:            | 35 mm                                       |
| Diameter:          | 12 mm / 6 mm<br>12 mm / 4,5 mm (SLIM model) |



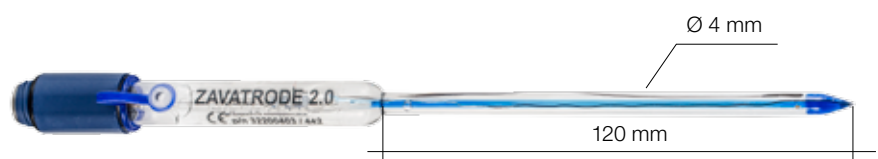
| Model              | Range pH | Temp. °C   | Head            | Note  | Code            |
|--------------------|----------|------------|-----------------|---|-----------------|
| <b>2 PORE</b>      | 0...14   | 0...+60 °C | S7 connector    | -   | <b>32200333</b> |
| <b>2 PORE SLIM</b> | 0...14   | 0...+60 °C | S7 connector    | -   | <b>32200283</b> |
| <b>2 PORE F</b>    | 0...14   | 0...+60 °C | S7 connector    | -   | <b>32200293</b> |
| <b>2 PORE T</b>    | 0...14   | 0...+60 °C | Cable fix / BNC | With temperature sensor NTC 30KΩ plug RCA Cinch | <b>32200323</b> |

|                    |                      |
|--------------------|----------------------|
| Shaft material:    | Glass                |
| Temperature probe: | No                   |
| Diaphragm:         | 2 Ceramic diaphragms |
| Reference system:  | Ag/AgCl cartridge    |
| Electrolyte:       | Glycerin KCl         |
| length:            | 25 mm                |
| Diameter:          | 12 mm / 6 mm         |



| Model            | Range pH | Temp. °C    | Head         | Note | Code            |
|------------------|----------|-------------|--------------|------|-----------------|
| <b>FOOD SLIM</b> | 0...14   | 0...+100 °C | S7 connector | -    | <b>32200243</b> |

|                    |              |
|--------------------|--------------|
| Shaft material:    | Glass        |
| Temperature probe: | No           |
| Diaphragm:         | Ceramic      |
| Reference system:  | Ag/AgCl      |
| Electrolyte:       | Glycerin KCl |
| length:            | 120 mm       |
| Diameter:          | 12 mm / 4 mm |



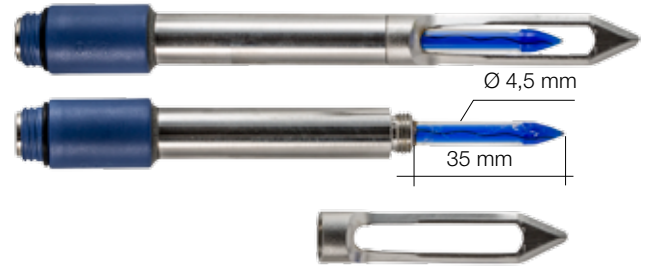
| Model            | Range pH | Temp. °C   | Head         | Note                | Code            |
|------------------|----------|------------|--------------|---------------------|-----------------|
| <b>ZAVATRODE</b> | 0...14   | 0...+60 °C | S7 connector | Cheese measurements | <b>32200403</b> |

|                    |                          |
|--------------------|--------------------------|
| Shaft material:    | Glass/steel              |
| Temperature probe: | Yes                      |
| Diaphragm:         | 2 open pore diaphragms   |
| Reference system:  | Ag Coated                |
| Electrolyte:       | Polymer maintenance free |
| length:            | 50 mm                    |
| Diameter:          | 12 mm / 6 mm             |



| Model                 | Range pH | Temp. °C   | Head            | Note  | Code            |
|-----------------------|----------|------------|-----------------|---|-----------------|
| <b>2 PORE STEEL T</b> | 0...14   | 0...+60 °C | Fix cable / BNC | With temperature sensor NTC 30KΩ plug RCA Cinch | <b>32200313</b> |

|                    |                          |
|--------------------|--------------------------|
| Shaft material:    | Glass/steel              |
| Temperature probe: | Yes                      |
| Diaphragm:         | 2 open pore diaphragms   |
| Reference system:  | Ag Coated                |
| Electrolyte:       | Polymer maintenance free |
| length:            | 35 mm                    |
| Diameter:          | 12 mm / 4,5 mm           |



| Model                         | Range pH | Temp. °C   | Head         | Note              | Code            |
|-------------------------------|----------|------------|--------------|-------------------|-----------------|
| <b>2 PORE K complete</b>      | 0...14   | 0...+60 °C | S7 connector | With knife        | <b>32200303</b> |
| <b>2 PORE K without knife</b> | 0...14   | 0...+60 °C | S7 connector | Without knife     | <b>32200343</b> |
| <b>Knife for 2 PORE K</b>     | -        | -          | -            | Replaceable knife | <b>32200353</b> |

## ELECTRODES FOR ORP MEASUREMENT

|                    |                      |
|--------------------|----------------------|
| Shaft material:    | Glass                |
| Temperature probe: | No                   |
| Diaphragm:         | 3 ceramic diaphragms |
| Reference system:  | Ag/AgCl cartridge    |
| Electrolyte:       | KCl 3M               |
| length:            | 120 mm               |
| Diameter:          | 12 mm                |



| Model               | Range mV  | Temp. °C      | Head         | Note                        | Code            |
|---------------------|-----------|---------------|--------------|-----------------------------|-----------------|
| <b>STANDARD ORP</b> | ± 2000 mV | -10...+100 °C | S7 connector | Platinum ring for ORP/Redox | <b>32200233</b> |



|                    |                     |
|--------------------|---------------------|
| Shaft material:    | Glass               |
| Temperature probe: | No                  |
| Diaphragm:         | Ceramic             |
| Reference system:  | Ag/AgCl cartridge   |
| Electrolyte:       | KNO <sub>3</sub> 1M |
| length:            | 120 mm              |
| Diameter:          | 12 mm               |



| Model              | Range mV  | Temp. °C     | Head         | Note                                   | Code            |
|--------------------|-----------|--------------|--------------|--|-----------------|
| <b>STANDARD Ag</b> | ± 2000 mV | -10...+80 °C | S7 connector | Silver tip for argentometric titration | <b>32200483</b> |



|                    |                         |
|--------------------|-------------------------|
| Shaft material:    | Epoxy                   |
| Temperature probe: | No                      |
| Diaphragm:         | Ceramic                 |
| Reference system:  | Ag/AgCl double junction |
| Electrolyte:       | Gel maintenance free    |
| length:            | 120 mm                  |
| Diameter:          | 12 mm                   |



| Model                | Range mV  | Temp. °C   | Head            | Note                       | Code            |
|----------------------|-----------|------------|-----------------|----------------------------|-----------------|
| <b>Plast ORP</b>     | ± 1000 mV | 0...+60 °C | S7 connector    | Platinum pin for ORP/REDOX | <b>32200663</b> |
| <b>Plast ORP BNC</b> | ± 1000 mV | 0...+60 °C | Fix cable / BNC | Platinum pin for ORP/REDOX | <b>32200673</b> |



## pH PLASTIC SHAFT ELECTRODES

|                    |                          |
|--------------------|--------------------------|
| Shaft material:    | Epoxy                    |
| Temperature probe: | No                       |
| Diaphragm:         | 1 ceramic + 1 open pore  |
| Reference system:  | Ag/AgCl cartridge        |
| Electrolyte:       | Polymer maintenance free |
| length:            | 120 mm                   |
| Diameter:          | 12 mm                    |



BNC Plug

DIN Plug

| Model                    | Range pH | Temp. °C   | Head            | Note | Code            |
|--------------------------|----------|------------|-----------------|------|-----------------|
| <b>POLYMER PLAST</b>     | 0...14   | 0...+60 °C | S7 connector    | -    | <b>32200493</b> |
| <b>POLYMER PLAST BNC</b> | 0...14   | 0...+60 °C | Fix cable / BNC | -    | <b>32200503</b> |
| <b>POLYMER PLAST DIN</b> | 0...14   | 0...+60 °C | Fix cable / DIN | -    | <b>32200513</b> |

|                    |                      |
|--------------------|----------------------|
| Shaft material:    | Epoxy                |
| Temperature probe: | Yes                  |
| Diaphragm:         | 1 ceramic            |
| Reference system:  | Ag/AgCl              |
| Electrolyte:       | Gel maintenance free |
| length:            | 120 mm               |
| Diameter:          | 12 mm                |



BNC Plug

RCA Cinch Plug

| Model       | Range pH | Temp. °C   | Head            | Note  | Code            |
|-------------|----------|------------|-----------------|---|-----------------|
| <b>201T</b> | 0...14   | 0...+60 °C | Fix cable / BNC | With temperature sensor NTC 30KΩ plug RCA Cinch | <b>50002002</b> |

## Electrolyte and maintenance solutions

| Part No.        | Package | Description  |
|-----------------|---------|--|
| <b>32208003</b> | 75ml    | 3M KCl XS Sensor Electrolyte solution                              |
| <b>32208013</b> | 500ml   | 3M KCl XS Sensor Electrolyte solution                              |
| <b>32208023</b> | 75ml    | GLYCERIN-KCl XS Sensor Electrolyte solution                        |
| <b>32208033</b> | 75ml    | KNO <sub>3</sub> 1M Electrolyte solution for XS Sensor STANDARD Ag |
| <b>32208043</b> | 75ml    | XS Sensor STORAGE Solution   |
| <b>32208053</b> | 500ml   | XS Sensor STORAGE Solution   |
| <b>32208063</b> | 75ml    | PROTEIN CLEANING Solution (pepsin) for XS Sensor                   |
| <b>32208073</b> | 75ml    | DIAPHRAGM CLEANING solution (thiourea) for XS Sensor               |
| <b>32208083</b> | 75ml    | REGENERATION Solution for XS Sensor pH electrode                   |

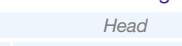
# XS Conductivity cells

|                    |                    |
|--------------------|--------------------|
| Shaft material:    | Glass              |
| Temperature probe: | No/Yes in VPT 80/1 |
| Plate:             | Platinum           |
| length:            | 120 mm             |
| Diameter:          | 12 mm              |

BNC Plug



RCA Cinch Plug



| Model           | Range COND  | Temp. °C   | Head            | Note  | Code            |
|-----------------|-------------|------------|-----------------|---|-----------------|
| <b>VP 8</b>     | 10µS...10mS | 0...+80 °C | Fix cable / BNC | cell constant C=1                                     | <b>50004062</b> |
| <b>VPT 80/1</b> | 10µS...10mS | 0...+80 °C | Fix cable / BNC | cell constant C=1 With sensor NTC 30KΩ plug RCA Cinch | <b>50003352</b> |

|                    |             |
|--------------------|-------------|
| Shaft material:    | PVC / Steel |
| Temperature probe: | Yes         |
| Plate:             | Steel       |
| length:            | 120 mm      |
| Diameter:          | 12 mm       |



| Model            | Range COND    | Temp. °C   | Head            | Note   | Code            |
|------------------|---------------|------------|-----------------|--|-----------------|
| <b>VPT 51/01</b> | 0,1 µS...1 mS | 0...+60 °C | Fix cable / BNC | cell constant C=0,1 With sensor NTC 30KΩ plug RCA Cinch <b>ultrapure water</b> | <b>50004012</b> |

|                    |          |
|--------------------|----------|
| Shaft material:    | Glass    |
| Temperature probe: | Yes      |
| Plate:             | Platinum |
| length:            | 120 mm   |
| Diameter:          | 12 mm    |



| Model            | Range COND      | Temp. °C   | Head          | Note  | Code            |
|------------------|-----------------|------------|---------------|---|-----------------|
| <b>VPT 80/10</b> | 100 µS...200 mS | 0...+80 °C | Fix cable BNC | cell constant C=10 With sensor NTC 30KΩ plug RCA Cinch <b>sea water</b> | <b>50004072</b> |

|                    |                  |
|--------------------|------------------|
| Shaft material:    | PVC              |
| Temperature probe: | Yes              |
| Plate:             | 4 graphite plate |
| length:            | 120 mm           |
| Diameter:          | 12 mm            |



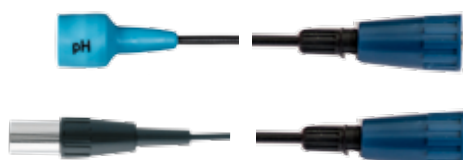
| Model           | Range COND     | Temp. °C   | Head                 | Note   | Code            |
|-----------------|----------------|------------|----------------------|--|-----------------|
| <b>VPT 80/4</b> | 10 µS...200 mS | 0...+60 °C | Fix cable / multipin | cell constant C=0,5 With sensor NTC 30KΩ plug multipin | <b>50003362</b> |

|                    |             |
|--------------------|-------------|
| Shaft material:    | PVC / Steel |
| Temperature probe: | Yes         |
| Plate:             | Steel       |
| length:            | 120 mm      |
| Diameter:          | 12 mm       |



| Model        | Range COND     | Temp. °C   | Head            | Note  | Code            |
|--------------|----------------|------------|-----------------|---|-----------------|
| <b>2301T</b> | 10 µS...200 mS | 0...+60 °C | Fix cable / BNC | cell constant C=1 With sensor NTC 30KΩ plug RCA Cinch | <b>50004002</b> |

## Cables



1 m cable S7 / BNC

**33551733**

1 m cable S7 / DIN

**33551743**