## pH-Combination Probes

### PHER 112 SE

#### Technical Data
- **pH-range:** 1...12
- **Temperature:** 0...80 °C
- **Max. pressure:** 6 bar
- **Conductivity:** > 150 µS/cm
- **Diaphragm:** PTFE-ring diaphragm
- **Reference:** Ag with AgCl supply
- **Installed length:** 120 ± 3 mm
- **Mounting angle:** ≥ 15°
- **Glass stem Ø:** 12 mm
- **Mounting thread:** PG 13.5
- **Electrode head:** Push-and-twist connector SN6
- **Storage temperature:** +10...+30 °C

#### Typical Applications:
- Municipal and industrial waste water, drinking water, industrial water, chemical industry, paper manufacturing, food industry, (not for media containing chlorine/fluoride and conditions with frequent temperature fluctuations)

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<th>Order-No.</th>
<th>PHER 112 SE</th>
<th>1001066</th>
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### PHEN 012 SL and PHEN 012 SL 3 D

#### Technical Data
- **pH-range:** 0...12
- **Temperature:** 0...80 °C
- **Max. pressure:** > 150 µS/cm
- **Conductivity:** > 150 µS/cm with 3 diaphragms (3 D)
- **Diaphragms:** 1 or 3 ceramic diaphragms
- **Reference:** Ag/AgCl supply (3 mol KCl/polymer)
- **Electrode head:** Push-and-twist connector SN6
- **Storage temperature:** +10...+30 °C

#### Typical Applications:
- Manual measurements in laboratory, low conductivity (3 D version)

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<tr>
<th>Order-No.</th>
<th>PHEN 012 SL</th>
<th>305078</th>
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<td>PHEN 012 SL 3D</td>
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### PHEK 112 S/F

#### Technical Data
- **pH-range:** 1...12
- **Temperature:** 0...80 °C
- **Max. pressure:** > 150 µS/cm
- **Conductivity:** > 150 µS/cm
- **Diaphragm:** Glass fibre
- **Electrode head:** Push-and-twist connector SN6 or fixed cable (FE-versions)
- **Plastic stem Ø:** 12 mm (material poly carbonate)
- **Storage temperature:** +10...+30 °C

#### Typical Applications:
- Manual measurements, e.g. swimming pool, drinking water, industrial water, slightly contaminated waste water

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<tr>
<th>Order-No.</th>
<th>PHEK 112 S</th>
<th>PH 112 F</th>
<th>see Equipment catalogue</th>
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### PHX 112 SE/FE

#### Technical Data
- **pH-range:** 1...12
- **Temperature:** 0...100 °C
- **Max. pressure:** 6 bar
- **Conductivity:** > 500 µS/cm
- **Diaphragm:** open annular gap (solid polymer electrolyte)
- **Outlet:** Ag with AgCl supply (3 mol KCl/polymer)
- **Installed length:** 120 ± 3 mm and 255 ± 3 mm resp.
- **Mounting angle:** ≥ 15°
- **Glas stem Ø:** 12 mm
- **Mounting thread:** PG 13.5
- **Electrode head:** Push-and-twist connector SN6 fixed cable (FE variants)

#### Storage temperature:
- +10...+30 °C

#### Typical Applications:
- Waste water, industrial water, chemical processes, emulsions, suspensions, media containing protein, sulphides... (not for media containing chlorine/fluoride and conditions with frequent temperature fluctuations)

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<th>Order-No.</th>
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<td>PHX 112 SE (225 mm)</td>
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### PHX 112 SE

#### Technical Data
- **pH-range:** 1...12
- **Temperature:** 0...80 °C
- **Max. pressure:** 6 bar
- **Conductivity:** > 500 µS/cm
- **Diaphragm:** open annular gap (solid polymer electrolyte)
- **Outlet:** Ag with AgCl supply (3 mol KCl/polymer)
- **Installed length:** 120 ± 3 mm and 255 ± 3 mm resp.
- **Mounting angle:** ≥ 15°
- **Glas stem Ø:** 12 mm
- **Mounting thread:** PG 13.5
- **Electrode head:** Push-and-twist connector SN6 fixed cable (FE variants)

#### Storage temperature:
- +10...+30 °C

#### Typical Applications:
- Waste water, industrial water, chemical processes, emulsions, suspensions, media containing protein, sulphides... (not for media containing chlorine/fluoride and conditions with frequent temperature fluctuations)

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### PHX 112 SE 3 D

#### Technical Data
- **pH-range:** 1...12
- **Temperature:** 0...80 °C
- **Max. pressure:** > 500 µS/cm
- **Conductivity:** > 500 µS/cm
- **Diaphragm:** 3 ceramic diaphragms
- **Reference:** Ag/AgCl (3 mol KCI/liquid KCl electrolyte refillable
- **Installed length:** 130 ± 3 mm
- **Mounting angle:** ≥ 15°
- **Glass stem Ø:** 12 mm
- **Mounting thread:** PG 13.5
- **Electrode head:** Push-and-twist connector SN6

#### Storage temperature:
- +10...+30 °C

#### Typical Applications:
- Drinking water, Waste water or for low conductivity (3 D-version)

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### PHX 112 SE 3 F

#### Technical Data
- **pH-range:** 1...12
- **Temperature:** 0...80 °C
- **Max. pressure:** > 500 µS/cm
- **Conductivity:** > 500 µS/cm
- **Diaphragm:** 3 ceramic diaphragms
- **Reference:** Ag/AgCl (3 mol KCl/polymer)
- **Outlet:** Ag with AgCl supply
- **Installed length:** 120 ± 3 mm and 255 ± 3 mm resp.
- **Mounting angle:** ≥ 15°
- **Glas stem Ø:** 12 mm
- **Mounting thread:** PG 13.5
- **Electrode head:** Push-and-twist connector SN6

#### Storage temperature:
- +10...+30 °C

#### Typical Applications:
- Swimming pool, drinking water, industrial water, slightly contaminated waste water

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### PHEP 112 SE

#### Technical Data
- **pH-range:** 1...12
- **Temperature:** 0...80 °C
- **Max. pressure:** 6 bar
- **Conductivity:** > 500 µS/cm
- **Diaphragm:** Ceramic
- **Reference:** Ag with AgCl supply (3 mol KCl/polymer)
- **Installed length:** 120 ± 3 mm
- **Mounting angle:** ≥ 15°
- **Glass stem Ø:** 12 mm
- **Installation opening:** min. Ø 14.5 mm
- **Mounting thread:** PG 13.5
- **Electrode head:** Push-and-twist connector SN6

#### Storage temperature:
- +10...+30 °C

#### Typical Applications:
- Swimming pool, drinking water, industrial water, slightly contaminated waste water

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<th>Order-No.</th>
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