# Sensor Specification
## Combination Probes PHED 112 SE Rev M

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH range</strong></td>
<td>1 ...12</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>32 - 180°F / 0 - 80°C</td>
</tr>
<tr>
<td><strong>Maximum Pressure</strong></td>
<td>116 psi / 8.0 bar</td>
</tr>
<tr>
<td><strong>Maximum Distance</strong></td>
<td>33' / 10 meters</td>
</tr>
<tr>
<td><strong>With Converter</strong></td>
<td>1,000' / 300 meters (See page 2)</td>
</tr>
<tr>
<td><strong>Minimum Conductivity</strong></td>
<td>150uS</td>
</tr>
<tr>
<td><strong>Diaphragm</strong></td>
<td>Double Junction</td>
</tr>
<tr>
<td><strong>Electrode shaft</strong></td>
<td>Glass</td>
</tr>
<tr>
<td><strong>Installation Length</strong></td>
<td>120mm±2.5%</td>
</tr>
<tr>
<td><strong>Thread</strong></td>
<td>PG 13.5 (Metric)</td>
</tr>
<tr>
<td><strong>Typical Applications</strong></td>
<td>Drinking water, industrial water, slightly contaminated waste water, cooling tower water</td>
</tr>
<tr>
<td><strong>Controller Compatibility</strong></td>
<td>Aegis, Ammonia, Dulcometer (D1C etc), DCM, DAC, microFLEX, MultiFLEX, ProMtrac and SlimFLEX</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>Coax cable with SN6 connector</td>
</tr>
<tr>
<td><strong>Wiring Polarity</strong></td>
<td>Center Conductor - Clear (+)</td>
</tr>
<tr>
<td></td>
<td>Shield – Black (-)</td>
</tr>
</tbody>
</table>

- Orange Body
- Mount vertically only
- Ball tip

120 mm ±3
Part numbers for Accessories and Kits (Standard USA threads)

**pH Sensor Kit: 7760729**
(6 Pieces)

- **7746422** Long Body Probe Holder
- **7741484** ¾” Sch80 PVC Tee
- **7741202** ¾” x 3” SS Nipple
- **7741452** ¾” SS Hose clamp

**741036** PHED Sensor
(includes O-ring **740800**)

**7305022** Stainless Steel Long Body Probe Holder

Use driver input card
Part OP
**7760683**
Driver card not part of kit!

**pH Long Distance Transmitter converts mV to 4-20mA**
Do not exceed 1,000’

- Requires driver CII
- Isolated 4-20mA input
- **7760707**

- Requires 2 Conductor 22AWG cable
- **7760527**

**Optional Sensor Cables**

- **305040** 10 Meter SN6 probe cable
- **1042110** 1.5 Meter SN6 probe cable

**High pressure/ high temperature applications**

**7741208** Schedule 40 ¾” Stainless Steel Tee
The pH Metric Assembly includes 4 items
PN 7500849

CABLE COAX 5 meter-S
SN6 w/o P
PN 1036595

PHED 112 SE
PN 741036

ASSEMBLY SET pH/lf-
PROBES T90⁰ D25 DN20
PN 1001493

2 Meters of
grounding wire

PH Long Distance Converter
To extend the pH sensor from the controller more than 10 Meters, attach a pH converter
Do not exceed 1,000'
Requires driver CII
Isolated 4-20mA input
PN 7760707

PN 809126
The long distance transmitter uses 2 conductor cable, 18 to 22AWG

Optional Sensor Cables
PN 305040 10 Meter SN6 probe cable
PN 1042110 1.5 Meter SN6 probe cable

Optional hookup wire
2 conductor cable, 22AWG
PN 7760527