



## Gel-filled pH sensor cartridge 300-P-C

### Conformable standards

This equipment conforms to the following standards:



RoHS: EN50581




9. Monitoring and control instruments

### Authorised representative in EU

HORIBA Europe GmbH  
Hans-Mess-Str.6, D-61440 Oberursel, Germany

### Caution on use

#### Safety precautions

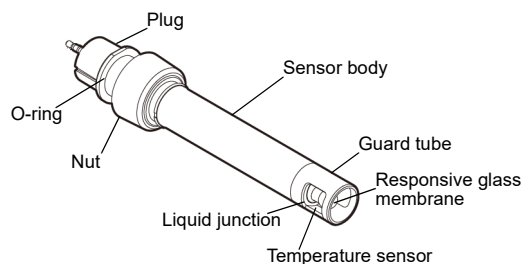
 <b>CAUTION</b>	
	<b>Chemical solution</b> If the internal material comes in contact with the hands or skin, wash immediately with water.
	 <b>Glass fragments</b> Glass fragments can cause injury. The tip of the sensor cartridge are made of glass. Be careful not to break them.

#### Points of concern

- Do not give an excessive shock to the sensor cartridge.
- Cracked or chapped sensor cartridge can not be used. Replace such sensor cartridge with a new one.
- Avoid continuous measurement soaking in the strong acidic or alkaline solution concentrated more than 0.01 mol/L. These solution may reduce the performance and the lifetime of the sensor cartridge.
- Do not use the sensor cartridge in a solution in which hydrofluoric acid (HF) is contained. Glassware will corrode in the HF solution.
- Avoid sudden temperature change over 50 °C on the sensor cartridge. The sensor body might be deformed or the glassware might be cracked.
- Solid particles of silver chloride might be observed floating in the inner solution of the responsive glass membrane. This is not a problem and this will not affect performances of the sensor cartridge.
- Do not use (store) the sensor cartridge in any place where the operation temperature (storage temperature) is out of the specified range.
- When disposing of the product, follow the related laws and/or regulations of your country for disposal of the product.

### Specifications and parts description

#### Parts name



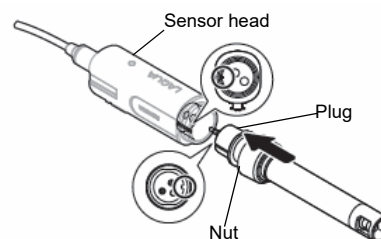
#### Specifications

Measurement range	pH 0 to 14
Operation temperature range	0°C to 80°C
Storage temperature range	0°C to 50°C
Liquid junction material	Porous sintered polyethylene
Wetted material	Glass, silicone rubber, polycarbonate, polyethylene, Polyolefin
Wetted parts dimensions	Outer diameter 16 mm × Length 110 mm
Liquid junction height	Approximately 15 mm (from the tip of sensor cartridge)
Zero point	pH7.0
Asymmetry potential	0±25 mV *
Slope	95% to 105% at 25°C *

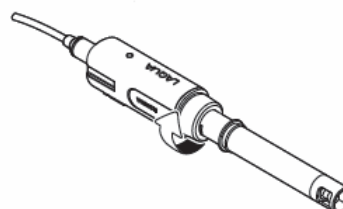
\*: At the time of factory shipment

### Installation procedure

- Remove the rubber cap of the plug.
- Connect the slot of the sensor cartridge with the marker of the sensor head and push into the sensor head.



- Tighten the nut firmly until the nut is totally tight on the sensor head.



#### Note

- Push the plug into the sensor head keeping connectors dry.
- Avoid using a rusted plug.
- In the absence of O-ring or in the case where the nuts is not tight enough, liquids might flow into the connection space and cause malfunction.
- After replacement of sensor cartridge, perform calibration before measurement. Refer to the instruction manual of the meter.

### Maintenance and storage

Refer to the instruction manual of the meter for details.

#### Note

- Do not dry the responsive glass membrane and the liquid junction.
- Keep the liquid junction away from the water for storage. Otherwise, the sensor cartridge life span will be shortened.

