



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

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Caution on use

Safety precautions

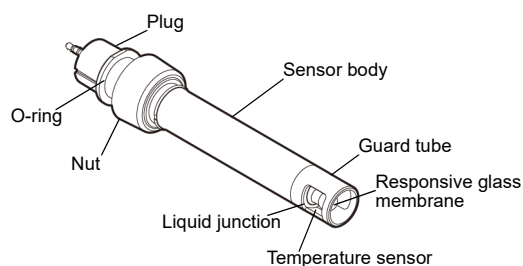
 CAUTION	
	Chemical solution If the internal material comes in contact with the hands or skin, wash immediately with water.
	 Glass fragments Glass fragments can cause injury. The tip of the sensor cartridge are made of glass. Be careful not to break them.

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



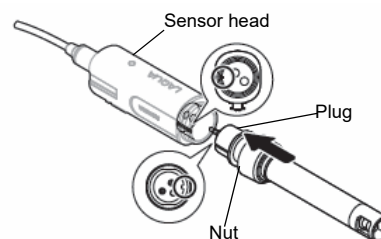
Specifications

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 *

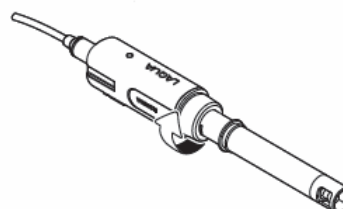
*: At the time of factory shipment

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.

