

## 1.3 Sensors DULCOTEST for pH, ORP, Fluoride and Temperature

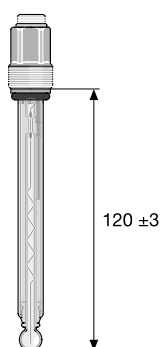
### PH sensor PHER-DJ 112 SE



pH sensor with double diaphragm (double junction) optimised for use in contaminated water containing solids and for low conductivity of  $> 10 \mu\text{S}/\text{cm}$  at up to  $80^\circ\text{C}/6 \text{ bar}$ .

#### Your Benefits

- Electrochemical combination electrode: pH and reference electrode integrated
- The large dirt-repellent Teflon® diaphragm prevents the reference system from becoming blocked up
- Long service life when solids are present
- High-viscosity electrolyte combined with a salt reservoir prevents the electrolyte from “bleeding”
- Long service life without drifts when there is clear water with low conductivity
- Twist protection for the sensor cable connected. This means that the cables can remain connected during installation and dismantling of the sensor, avoiding troublesome moisture on the connector contacts
- Lead-free glass for advanced and environmentally-friendly production, use and disposal (RoHS-compliant)



#### Technical Data

pH-range	1...12
Temperature	0...80 °C
Max. pressure	6.0 bar
Min. conductivity	10 $\mu\text{S}/\text{cm}$
Electrolyte	Gel containing potassium chloride with KCl reservoir
Diaphragm	2x PTFE ring diaphragm
Sensor shaft	Glass
Shaft diameter	12 mm
Installation length	120 $\pm 3$ mm
Fitting position	Vertical up to $+25^\circ$
Thread	PG 13.5
Electrical Connection	SN6 plug-in head, rotatable with a ProMinent cable
Enclosure rating	IP 65
Process integration	By-pass: open outlet or return of the sample water into the process line, inline: direct installation into the pipework; fixed or replaceable (replaceable fitting), tank, channel: Immersion in the immersion tube
Controllers	All DULCOMETER controllers
Typical applications	Municipal and industrial waste water, cooling water, process water, water in the chemical industry and paper making, generally water with solid fractions.
Resistance to	Disinfectant, solids content (turbid types of water)
Measuring principle, technology	Direct potentiometric measurement, 2 electrodes, Teflon ring diaphragm, polymer electrolyte, separate temperature measurement for temperature compensation needed

	Installation length	Order no.
PHER-DJ 112 SE	120 $\pm 3$ mm	1108991

