



# ProTrode 250 sensor ProTrode 350 sensor

Suitable electrodes for inline pH measurements  
for the chemical industry

## HIGHLIGHTS

- Reliable: accurate results over the entire lifetime of the sensor
- Flexible: ideal for measurements in vessels, reactors, or pipes
- Robust: designed for a wide range of process conditions
- Maintenance-free: the ProTrode sensors are always ready to use

# Optimize your process by monitoring pH in «real-time»

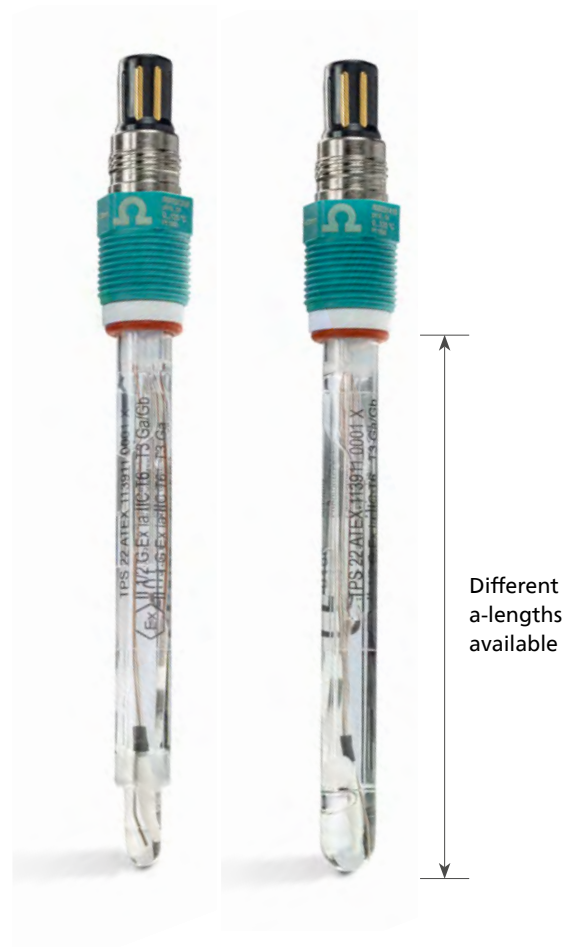
The ProTrode 250 and 350 are combined pH sensors with integrated temperature sensor (Pt1000) to perform inline pH measurements in chemical processes which require demanding sensor specifications. They both are pre-pressurized sensors, and thus they can measure on process conditions of up to 4 bar, without any complications. Additionally, they have been designed with a silver scavenger to avoid silver ions entering the process sample.

The main difference between the two sensors is the type of diaphragm. The ProTrode 250 has a sleeve diaphragm, which is ideal for a wide range of applications where samples are stirred or the process flow varies constantly. This type of diaphragm creates a very stable outflow of electrolyte around the sensor so that stable results are always obtained. The ProTrode 350 on the other hand has a ceramic pin diaphragm, which is typical for standard chemical application. Additionally, these sensors are made with a high alkaline H glass, which makes them highly accurate in the high pH range.



## TECHNICAL SPECIFICATIONS

Specifications	Protrode 250	Protrode 350
Measuring range	0–14 pH	0–14 pH
Max. Pressure	4 bar (pre-pressurized)	4 bar (pre-pressurized)
Temperature range	0–120 °C	0–120 °C
Diaphragm	Sleeve	Ceramic pin
pH membrane	H glass	H glass
Sensor connector	VarioPin, PG 13.5	VarioPin, PG 13.5



ProTrode 250 (left) and ProTrode 350 (right) sensors for chemical process environments

## ORDERING INFORMATION

Type	a-length	Part number
ProTrode 250	120 mm	6.09331.310
ProTrode 250	225 mm	6.09331.320
ProTrode 250	325 mm	6.09331.330
ProTrode 250	360 mm	6.09331.340
ProTrode 250	425 mm	6.09331.350
Protrode 350	120 mm	6.09331.410
Protrode 350	225 mm	6.09331.420
Protrode 350	325 mm	6.09331.430
Protrode 350	360 mm	6.09331.440
Protrode 350	425 mm	6.09331.450