pHure pH Sensor

THORNTON
Leading Pure Water Analytics

Reliable pH Measurement
In Pure Water Applications



Reliable Low Conductivity Measurement

Designed to excel in challenging conditions, pHure sensors deliver highly accurate pH measurement in pure waters. Stability of the reference diaphragm/junction potential provides monitoring consistency in low conductivity applications.



Faster Response, Simplified Maintenance

With a special glass membrane and an integrated temperature sensor, the pHure sensor ensures fast, reliable response. Prioritize convenience by extending lifetime and minimizing maintenance with the internally pressurized gel electrolyte.



Increase Process Uptime

Leveraging ISM technology, seamlessly upload calibration data from lab to process for fast, error-free start-up. Achieve uptime and maintenance goals with predictive diagnostics on sensor calibration or replacement needs adapted to your process conditions.



High Measurement Stability

The pHure sensor's controlled sample flow path with minimum volume reduces the accumulation of corrosion particles around the electrode membrane. A sealed stainless steel housing prevents contamination from air and provides electrical shielding.



pHure Sensor® for Pure Water
Simplify Your Measurements

Accurate, continuous pure water monitoring can reduce expensive unplanned maintenance, downtime and capital equipment expenditure. The pHure Sensor with Intelligent Sensor Management (ISM®) combines high performance and convenience to simplify pH monitoring in low conductivity samples.

The easy installation and calibration plus low service requirement of the pHure Sensor increases lifetime and reduces safety risks. As a robust pressurized gel-filled electrode, the pHure Sensor delivers measurements field-proven to simplify processes. The pHure Sensor provides accuracy, stability and low maintenance for pH monitoring in pure waters.

Discover the pHure Sensor:

METTLER TOLEDO

pHure pH/ORP Sensor Technical Data and Ordering Information

pHure Sensor Specifications	
Wetted materials	pH Glass
Process connections	1/4" NPT(F) in/out
Flow housing volume	5 mL with electrode in place
Maximum pressure	Atmospheric pressure for optimum stability; operational 0 – 2.5 bar(g) (0 – 35 psig); can safely withstand 7 bar(g) (100 psig)
Sample temperature	0 – 80 °C (32 – 176 °F); short term to 100 °C (212 °F)
Sample pH	1 – 11 pH
Sample flowrate	50 – 150 mL/min
Sample conductivity	> 1.5 µs/cm for highest accuracy
Connection	AK9 or VP cable from sensor to instrument
Reference electrode	3M KCl

pHure Sensor Ordering Information	**Order Number**
pHure Sensor ISM combination electrode with temperature compensator	52003821
pHure Sensor combination electrode with RTD	52002447

Spare Parts/Required Accessories	**Order Number**
Housings	
pHure Sensor flow housing	58084010

AK9 Cables	**Order Number**
Sensor cable,1 m (3.3 ft)	59902167
Sensor cable, 3 m (9.9 ft)	59902193
Sensor cable, 5 m (16.4 ft)	59902213
Sensor cable, 10 m (32.8 ft)	59902230
Sensor cable, 20 m (65.6 ft)	52300204
Sensor cable, 30 m (98.4 ft)	52300393
Sensor cable, 50 m (164.0 ft)	52300394
Sensor cable, 80 m (262.4 ft)	52300395

VP Cables	**Order Number**
Sensor cable, 1 m (3.3 ft)	52300107
Sensor cable, 3 m (9.9 ft)	52300108
Sensor cable, 5 m (16.4 ft)	52300109
Sensor cable, 10 m (32.8 ft)	52300110

* For pH/ORP buffers, housing and cable options for other pH sensors, refer to the Process Analytics Catalog (P/N 52900315) or consult with METTLER TOLEDO directly.

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For more information

METTLER TOLEDO Group
Process Analytics Division

Quality certificate.
Development, production and testing to ISO 9001.

CE Compliant

UL listed
Meets Canadian Standards

Subject to technical changes
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PA2052EN Rev A 12/20