

Performance and Flexibility

Reliable pH/ORP Measurement



Highest Accuracy in Low Conductivity

Designed to excel in challenging conditions, the pHure Sensor LE delivers the most accurate pH measurement available in pure waters. Constant electrolyte flow through the junction provides monitoring confidence in the lowest conductivity applications.



Reduce Measurement Complexity

The pHure Sensor LE eliminates the need for separate measuring, reference and temperature compensating probes in a self-contained, easily refillable liquid electrolyte chamber. Simple maintenance ensures reliable sensor operation in your process for several years.



Increase Process Uptime

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



Optimized for Cycle Chemistry

An integral platinum solution ground allows the pHure Sensor LE to measure both pH and ORP, making it particularly well-suited to power plant applications. Accurate control of ORP can prevent copper oxidization and flow-accelerated corrosion of iron piping.



pHure Sensor® LE for Pure Water Measurement in Very Low Conductivity

Accurate, continuous pure water monitoring can reduce expensive unplanned maintenance, downtime and capital equipment expenditure. The pHure Sensor LE with Intelligent Sensor Management (ISM®) delivers the highest measurement reliability and simplifies pH monitoring in very low conductivity samples.

The easy installation and calibration plus low service requirement of the pHure Sensor LE increases lifetime and reduces safety risks. With a specially formulated glass membrane, liquid electrolyte and free-flowing junction, pHure Sensor LE measurements are field-proven to simplify processes and provide the most accurate, dependable pH and ORP measurements available in pure waters.

Discover the pHure Sensor LE:

► www.mt.com/pHure

pHure pH/ORP Sensor LE Technical Data and Ordering Information

pHure Sensor LE Specifications

Wetted materials	pH Glass, platinum solution ground/ORP
Process connections	1/4" NPT(F) in/out
Flow housing volume	5 mL with electrode in place
Maximum pressure	Atmospheric pressure for measurement; can safely withstand 7 bar(g) (100 psig)
Sample temperature	0–100 °C (32–212 °F)
Sample pH	1–12 pH
Sample flowrate	50–150 mL/min
Sample conductivity	>0.3 µs/cm for highest accuracy
Connection	AK9 or VP cable from sensor to instrument
Reference electrode	3M KCl

pHure Sensor LE Ordering Information

	Order Number
pHure Sensor LE ISM electrode	30039086
pHure Sensor LE analog electrode	30039085

Consumables

	Order Number
Replacement electrolyte 3M KCl 250 mL	51340049
Replacement syringe for electrolyte refill	58079520

Spare Parts/Required Accessories

	Order Number
Housings	
Stainless steel flow housing	58084017

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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www.mt.com/thornton

For more information

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



CE Compliant



UL listed
Meets Canadian Standards