

pHure Sensor™ LE

THORNTON
Leading Pure Water Analytics

pHure Sensor™ LE with ISM

Flowing liquid electrolyte

Low volume 316 stainless steel
flow housing

Easily refillable electrolyte chamber
Integral buffer containers



Reliable pH Measurement in Pure Waters
Excellent Performance in Water Treatment

METTLER TOLEDO

pHure Sensor LE

Reliable pH Measurement in Pure Waters

The Mettler-Toledo Thornton pHure Sensor Liquid Electrolyte (LE) for M300, M800 and M300 ISM uses free flowing liquid electrolyte to provide the most accurate pH measurement available in pure waters. The electrode includes a special pH glass membrane, an integral, fast-responding temperature sensor, and AK9 or VP cable connections. All components of the pHure Sensor LE have been optimized for low conductivity performance and value and conform to ASTM Standard D5128. Various lengths of cable can be selected to provide flexibility in locating the sensor.

Features

- Free flowing liquid electrolyte
- Accurate, fast responding temperature compensator
- Special glass membrane
- Solution ground connection
- Low volume 316 stainless steel flow housing
- Easily refillable electrolyte chamber
- Integral buffer containers

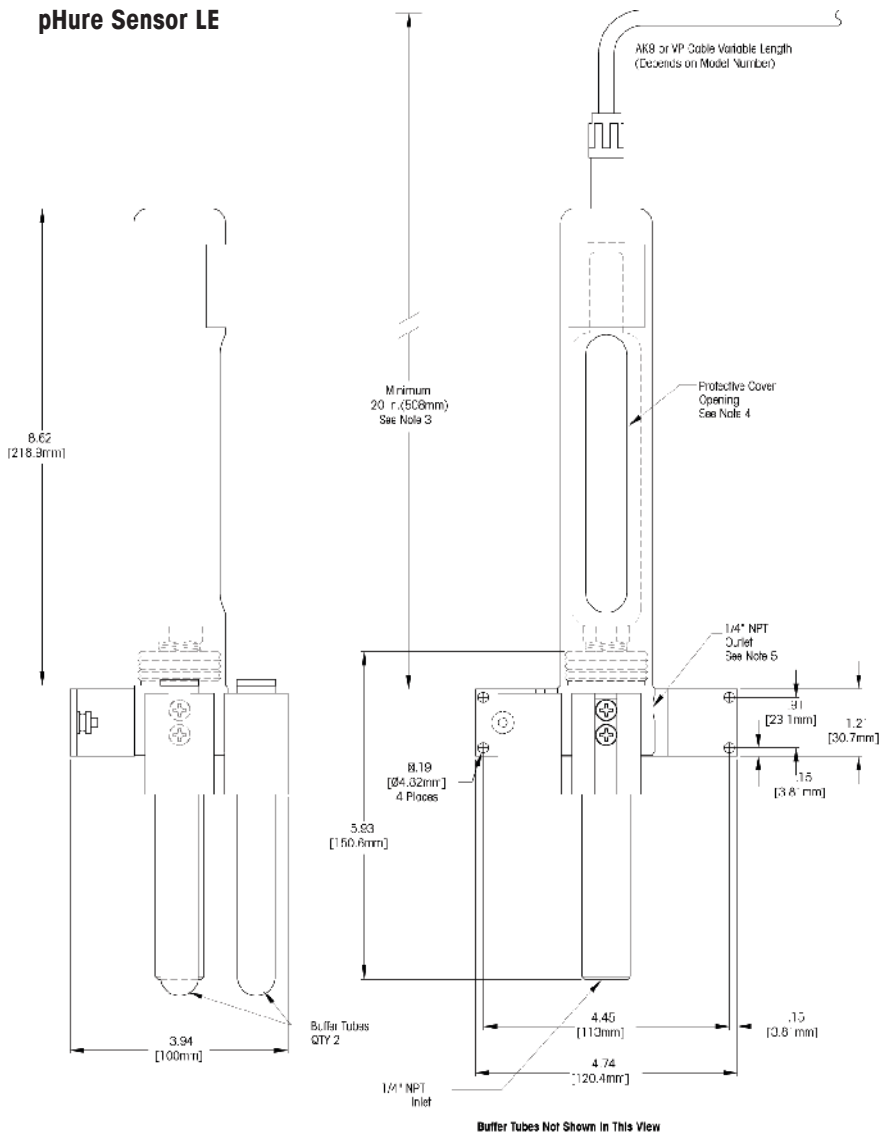
Applications

- Power plant cycle chemistry where pH measurement in very low conductivity water is critical
- Reverse osmosis – pH adjustment of clean recycle water or between membranes in two pass systems to optimize rejection rates
- Monitoring and controlling pH levels to comply with guidelines and minimize corrosion and scaling





pHure Sensor LE



Notes:

1. Dimensions: inches [mm]
2. Electrode / pH housing assembly must be in upright position as shown.
3. Allow at least 20 in. (508mm) clearance to remove sensor.
4. Protective cover support opening to face forward as shown when screwed onto housing.
5. Recommended tubing size 3/8" (9.5mm) od or larger running downward to open drain.

Specifications

Wetted materials	Glass pH, platinum ORP
Process connections	1/4" NPTF in /out
Flow housing volume	5 ml with electrode in place
Maximum pressure	Atmospheric pressure for operation, can safely withstand 7 bar(g) (100 psig)
Sample temperature	0 to 100°C (32 to 212°F)
Sample pH	1–12 pH
Sample flowrate	50 to 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
Components included	Combination pH electrode, 3 molar KCl electrolyte Flow housing, syringe, and cable

Ordering Information

Description	Order No.
pHure Sensor LE ISM used with M800 & M300 ISM	
pHure Sensor LE ISM, 1m (3ft) AK9 cable	58 032 420
pHure Sensor LE ISM, 3m (10ft) AK9 cable	58 032 421
pHure Sensor LE ISM, 5m (16ft) AK9 cable	58 032 422
pHure Sensor LE ISM, 10m (33ft) AK9 cable	58 032 423
pHure Sensor LE Used With M300	
pHure Sensor LE for M300, 1m (3ft) VP cable	58 032 250
pHure Sensor LE for M300, 3m (10ft) VP cable	58 032 251
pHure Sensor LE for M300, 5m (16ft) VP cable	58 032 252
pHure Sensor LE for M300, 10m (33ft) VP cable	58 032 253
Replacement parts	
2003 replacement electrode for M300	30 039 085
2003i ISM replacement electrode for M800 & M300 ISM	30 039 086
Electrolyte filling syringe	58 079 020
Housing with protective cover	58 084 017
Accessory	
Replacement electrolyte 3M KCl 250 mL bottle	51 340 049

www.mt.com/thornton

Visit for more information

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