



L450Zn

At Line Zinc Titrator

Liquid Analysis Systems' L450 series chemical analyzers perform at line wet chemical titrametric analyses of most aqueous chemical species using pH, ORP, ISE, turbidimetric and other sensors. The L450 features are optimized for extreme reliability, ease of use, and minimum operating cost.



L450 Series Features

- Auto sample retrieval and preparation
- Result replication and range check
- Auto-check of titrant, sample, and sensors
- Output options for recording, alarming, and replenishing.

Through its display and keypad, users can view process status and history, and modify analysis intervals and other configuration parameters. This series offers a variety of hardware options for stream selection, sample preparation, and sample/reagent delivery.

Series Options

- Multi-stream and multi-parameter analysis
- Grab sample port
- Standard precision titrant dose pumps with better than $\pm 3\%$ accuracy
- High precision titrant burette pumps with better than $\pm 1\%$ accuracy
- Auto sample-filter back flush
- Windows™ PC software for process oversight and control
- Replenishment systems

L450Zn At Line Zinc Titrator

The L450Zn at line nickel titrator measures zinc ion concentration in water, wastewater, or process streams by means of a robust EDTA titration. Its differential redox endpoint detection method eliminates the need for sensor calibration or replacement. Because peristaltic pumps and colorimetric dyes and indicators are not utilized, maintenance and reagent costs are minimized.



Model	
L450Zn	Base model with one standard precision titrant dose pumps, single stream inlet, and flow-thru sample capture.
Options	
-AE	Eductor pump option. Used in place of electric pump.
-GS	Grab sample capability. Sipper tube inlet.
-HP	High precision. 0.1 µl resolution titration burette.
-MSx	Multi-stream, x = number of streams.
-WF	Auto water back flush of sample filter. (Use with -EP.)
-WM	Windows™ Process Manager PC software

Specifications	
Ranges	Configurable over 20 to 1 range
Accuracy	Standard method: ±3% of range (Accuracy is configurable and is inversely proportional to reagent consumption.)
Method	EDTA titration after pH adjustment
Cycle time	7 minutes, typical
Drift	< 1% / yr
Reagent consumption	Standard precision model: 0.2 to 1 ml / test
Power	100/240 VAC 50/60 Hz
Sample pressure	0 to 25 psig
Sample temperature	10 to 50 °C
Sample connection	¼" tube
Sample streams	Standard:1 Optional: up to 8
Water (only used with -SP or -WP options)	100K ohm resistivity, minimum 20 to 60 psi, ¼" NPT-F connection
Air supply	65 psi, oil-free, ¼" NPT-F connection
Drain	½" tube connection
Vent (to drain)	¼" tube connection
Enclosure	20" H x 16" W x 13" D, wall mount, NEMA 4X/IP66
Display/Touchscreen	3" x 2.2", LCD with backlight
Relay output	Form C relay standard. Other per user requirement.
Analog output option	4-20 mA. Other per user requirement.
Network output option	Ethernet: email of status and alarms

Specifications subject to change