



Liquid Analysis Systems

L360 Acid Analyzer

Liquid Analysis Systems' L360 series chemical analyzers perform online sampling and analysis. The L360 is optimized for ease of use, low maintenance, and minimum operating cost.

Features

- Auto sample preparation
- Auto sample dilution for wide ranges
- Auto drift correction
- Result consistency check
- Auto check of reagents and sample
- Alarm outputs
- SD card data storage



Options

- Multi-stream analysis
- Overflow sampler with back-flushed inlet strainer
- Grab sample or standards ports
- Modbus communications
- Replenishment and dosing controls
- Windows™ PC software for process supervision

L360 Acid Analyzer

The online L360 Acid analyzer titrates acidity in process streams emulating a benchtop colorimetric titration. All aspects are automated, including sampling, reagent addition, titration and cleanup. With every new sample the optical path is wiped clean prevent drift. For dependable process control, each result is checked for consistency and range prior to posting, alarming, or actuating controls. Detection and alarming of maintenance items, sample flow, and reagent supply are included. Reagent consumption is minimized with microliter fluid delivery. Grab sample and auto standard validation are available as an option. Output options include Modbus, current loop, and relay.





Analyzer Model & Options

L360H	Base model with single stream inlet, precision burette for sample and reagents, process alarm relay.
Options	
AV	Auto validation on bottled standard with reporting and alarming
CL	Current loop output, 4-20 mA
DI	Digital input for remote control of analyses
ER	Extended analysis range. For analyses beyond standard ranges.
GS	Grab sample or standard inlet
MB	Modbus RTU output for results, history, and alarms
PCS	Windows™ process overview and analysis configuration software
RO	Relay output, form C, for process alarm, with configurable setpoint
SAn	Multi-stream sampling, n = number of streams.
SB	Sample strainer with auto backflush.
SK	Spares kit (basic and extended versions available)
SP	Sample pumping. For non-flowing samples.

Specifications ⁽¹⁾

Method	Titration with hydroxide to colorimetric pH endpoint.
Ranges	Configurable over 1:50 range, e.g., 0.020 to 1.000 N
Repeatability	1% of range ⁽²⁾
Cycle time	~9 minutes per replicate per stream ⁽²⁾
Stability	Drift < 2% / yr
Reagents	A – Hydroxide titrant. B – Indicator.
Power required	100/240 VAC, 1A
Sample streams	Standard: 1 Optional: 2
Sample conditions ⁽³⁾	> 10 °C, flow > 50 cc/min
Drain	Vented/non-pressurized
Water	Pressure ≥ 1 bar, purity ≤ 10 μS
Enclosure	14 x 12 x 10 inch, wall mount, NEMA 4X/IP65
Interface	10 cm color touchscreen. Option: backlit for outdoor
Output options	Modbus, 4-20 mA, process control relays

⁽¹⁾ Specifications subject to change.

⁽²⁾ Dependent upon range, speed, and replicate settings.

⁽³⁾ Consult LAS for conditions outside these limits.