



Liquid Analysis Systems

L360 Chlorine 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 Chlorine

The online L360Cl analyzer measures chlorine in water by means of the industry-standard colorimetric DPD method. Prior to adding reagent, the optics are calibrated at 0% and 100%T (both ends of the scale) for measurement consistency. The L360 design assures that the optical path is wiped clean before every test. Only microliters of reagent are required for each test, conserving reagent. With its auto dilution feature, the L360 accommodates both low and high process ranges. For dependable process control, each analysis can be automatically replicated prior to posting or alarming. 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.





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Analyzer Model & Options

L360CI	Base model with auto-cleaned colorimetric sensor, precision reagent pump, sample pump, single stream inlet, 4-20 mA output.
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	Free chlorine by DPC colorimetry at 540nm for free chlorine at pH 10 or total chlorine at pH <7.
Ranges	Configurable. E.g., 0 to 1, 10, 100, or 1000 ppm
Repeatability	≤ 1% of range ⁽²⁾
Cycle time	~5 minutes per replicate per stream ⁽²⁾
Equipment stability	≤ 2% / yr
Reagents	A – pH buffer. B – Indicator.
Power required	100 to 240 VAC, 1A
Sample streams	Standard: 1 Optional: 4. ¼" tube connection
Sample conditions ⁽³⁾	> 10 °C, flow > 50 cc/min
Drain	Vented/non-pressurized, ½" tube connection
Water	Pressure ≥ 1 bar, purity ≤ 10 µS, ¼" tube connection
Air	Oil-free, ¼" tube connection
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.