Liquid Analysis Systems

L360 Cr(VI) Analyzer

Liquid Analysis Systems' L360 series chemical analyzers perform online colorimetric 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
- PPB resolution
- 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 Cr(VI) Analyzer

The online L360 Cr(VI) analyzer measures hexavalent chromium in process streams by means of DPC colorimetric EPA standard method 3500 Cr B. With every reading the optical path is wiped clean and recalibrated to eliminate drift. All aspects are automated, including sampling, reagent addition, titration and cleanup. For dependable process control, each result is checked for consistency and range prior to posting, alarming, or actuating controls. Detection and alarming of 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.

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Analyzer Model & Options	
L360Cr(VI)	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	Transmittance at 540 nm after color development using stabilized DPC indicator and acidified sample. 0%T and 100%T readings are taken prior to color development.
Ranges	Configurable over 1:100 range, e.g., 0.010 to 1.000 ppm.
Resolution	Greater of 1 ppb or 1% of range [2]
Cycle time	~ 5 minutes per replicate per stream [2]
Stability	Drift < 5% / yr
Reagents	A - Sulfuric acid. B – DPC, stabilized.
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 speed settings.

[3] Consult LAS for conditions outside these limits.