



L360 Phenol Analyzer

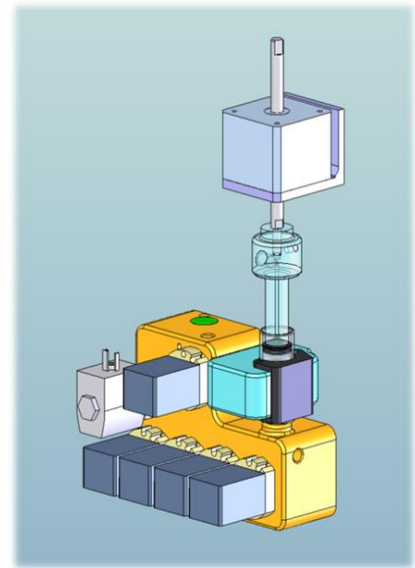
Liquid Analysis Systems' L360 series chemical analyzers perform online chemical analyses of aqueous chemical species using spectroscopy. The L360 is optimized for ease of use, low maintenance, and minimum operating cost.

Features

- Auto sample preparation, extraction, and measurement
- Result range and trend check
- Auto check of reagents and sensor
- Output options for reporting and alarming

Options

- Multi-stream analysis
- Grab sample or standards ports
- Replenishment and dosing systems
- Windows™ PC software for process supervision and analysis configuration



L360 Phenol Analyzer

The L360 analyzer measures phenol in process streams by means of color measurement at 600nm after auto-extraction into chloroform using a V-HDPBA chelator-dye complex. All aspects are automated, including sampling, reagent addition, extraction, blank subtraction, and measurement. The method is optimized specifically for wastewater measurement by the Pt. Ravishankar Shukla University in Raipur, India and Technical University Darmstadt in Darmstadt, Germany. It is faster and more specific method than the commonly used amino antipyrine method. However, since it is not yet incorporated into standard EPA methods, it should be checked against such at regular intervals.



Analyzer Model	
L360 Phenol	Base model with single stream inlet, standard inlet, precision burette for sample and reagents, process alarm relay, Modbus i/o .
Options	
AV	Auto validation with reporting and alarming
DI	Digital input for remote control of analyses
ER	Extended analysis range. For analyses beyond standard ranges.
PCS	Windows™ process overview and analysis configuration software
SA-n	Multi-stream sampling, n = number of streams.
SB	Sample strainer with auto backflush. For particulate >20 μ m.
SK	Spares kit (basic and extended versions available)
SP	Sample pump. For unpressurized samples.

Specifications ⁽¹⁾	
Method	Color measurement at 600nm after auto-extraction via V-HDPBA dye complex into chloroform.
Ranges	0.1 to 3.0 ppm. Other upon request.
Repeatability ⁽²⁾	5% of range
Cycle time ⁽²⁾	Typically 5 minutes per replicate per stream
Stability	Drift < 2.5% / yr
Reagent consumption ⁽²⁾	0.2 to 2.0 ml/test
Power required	100/240 VAC, 1A
Sample streams	Standard:1 Optional: 2
Sample conditions ⁽³⁾	0.15 to 0.5 bar, < 25 μ m particulate, 10 to 50 °C
Drain	Vented/non-pressurized
Water, DI	Not required except for high ranges for auto dilution
Enclosure	40 x 35 x 20 cm, wall mount, NEMA 4X/IP65
Interface	10 cm, color touchscreen. Optional: backlit for outdoor
Outputs	Modbus, process alarm dry relay

⁽¹⁾ All specifications are subject to review of sample conditions.

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

⁽³⁾ Consult LAS for conditions beyond these limits.