



# L460 Cr Analyzer



Liquid Analysis Systems' L460 series chemical analyzers perform dependable online colorimetric measurements. The L460 is optimized for extreme reliability, ease of use, and minimum operating cost.

## L460 Series Features

- Auto sample retrieval and preparation
- Auto-check of titrant, sample, and sensors
- Result range and trend check

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 analysis
- Grab sample port
- Auto sample filter back flush
- Sample diluter for extended range
- Replenishment and dosing systems
- RS 485/Ethernet networking/email messaging

## L460Cr - Total Chrome Analyzer

The at-line L460 analyzer measures total chromium in water by means of chromic conversion and the proven, EPA-approved DPC colorimetric method for chromate. As an option, the sample can be diluted automatically to extend the analysis concentration range. The procedure includes pH buffering and sample turbidity compensation. For dependable process control, each analysis can be automatically replicated and/or trend checked prior to posting, alarming, or replenishing. Sampling can be drawn from pressurized sample stream or pumped from overflow sampler. For sample with particulate, a sample strainer with automatic backflush is offered.



Analyzer Model	
L460Cr	Colorimetric at-line analyzer with 540 nm optical sensor, sample capture cell, standard precision (20 µl) reagent dose pumps, single stream inlet, 4-20 mA output.
Options	
DI	Digital input for remote enable of analyses or dosing
DO	Digital output relay with settable trip point or other control function
EB	Ethernet server for remote monitoring via web browser
ER	Sample diluter for extended analysis range
GS	Auto grab sample with sipper tube inlet.
MS	Multi-stream sampling
SB	Sample inlet strainer with auto backflush.
SP	Sample pump for unpressurized samples

Specifications	
Method	EPA 7196A: Color development with Cr <sup>6+</sup> -selective DPC indicator after chromium conversion to Cr <sup>6+</sup> form and pH adjustment with buffer.
Interferences	Molybdenum, vanadium, mercury
Range	Standard: 0 to 1.8 ppm. Extended: 0 to 20, 0 to 200 ppm
Resolution	1% of range
Accuracy	≤2% of range
Cycle time	5 to 8 minutes per stream
L460 drift	≤2% / year, typical
Reagent consumption	400 µl/test
Power required	100 to 240 VAC, 50/60 Hz
Sample streams	Standard: 1 Optional: up to 4
Sample conditions	Standard: 5 to 20 psig, < 50 µm particulate, 10 to 80 °C Other: consult factory
Sample connection	¼" NPT
Air supply (for option SB)	Compressed, oil-free, ¼" tube or NPT-F connection
Waste	¼" NPT. ½" tube adapter provided.
Leak	⅜" tube connection
Enclosure	22"Hx18"Wx10"D (55x46x26cm), wall mount, NEMA 4X/IP66
Display	3" x 2.2", LCD with backlight
Outputs	Standard: 4-20 mA process value(s), maintenance alarm relay. Optional: alarm relay with settable trip point, Ethernet, and/or serial network per user requirements.

Specifications subject to change