

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

ILX LIGHTWAVE

ILX Lightwave CSM39100 Laser Diode Controller Module

Aumictech offers NIST-traceable calibration and repair for the ILX Lightwave CSM39100. Calibration covers I/O channel accuracy per specification, analog output and input calibration to rated accuracy, and functional communication interface test (serial, Ethernet, fieldbus). All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common ILX Lightwave CSM39100 faults: blown I/O fuses, failed analog modules, power supply capacitor failure. Common faults include blown I/O protection fuses, failed analog I/O modules, power supply capacitor failure, and serial or Ethernet communication port damage. This ILX Lightwave CSM39100 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units. NIST-traceable calibration for the ILX Lightwave CSM39100 is (standard — pass



MODEL

**ILX Lightwave
CSM39100**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CSM39100

LISTING

<https://aumictechlabs.com/products/csm39100-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ILX Lightwave CSM39100 is a current source and monitor meticulously engineered for precise laser diode characterization and control. This instrument delivers a highly stable and accurate current output, complemented by comprehensive monitoring capabilities for voltage and

temperature. Its solid design and precise control make it an excellent choice for demanding laser diode applications where accuracy and reliability are paramount.

CSM39100 Characteristics / Specifications

PARAMETER	VALUE
Output Current Range	0 to 1000 mA
Setpoint Resolution	0.1 mA
Setpoint Accuracy	plus or minus 0.1 percent of FS
Compliance Voltage	6 V
Temperature Coefficient	less than 100 ppm/C
Short Term Stability 1 hour	less than 20 ppm
Long Term Stability 24 hours	less than 40 ppm
Noise Ripple High Bandwidth Mode	less than 10 uA rms
Noise Ripple Low Bandwidth Mode	less than 5 uA rms
Noise Ripple With LNF320 Filter	less than 2.5 uA rms
Operational Transients	less than 2 mA
Drive Current Limit Range	0 to 1000 mA
Drive Current Limit Resolution	4 mA
Drive Current Limit Accuracy	plus or minus 10 mA
Photodiode Reverse Bias	0 to 5 V adjustable
Photodiode Current Range	0 to 10 mA
Photodiode Setpoint Accuracy	plus or minus 0.05 percent of FS
Modulation Input	0 to 10 V 10 kOhm
Modulation Transfer Function	100 mA/V
Modulation High Bandwidth	DC to 200 kHz
Modulation Low Bandwidth	DC to 5 kHz
Display Output Current Range	0 to 1000.0 mA
Display Output Current Resolution	0.1 mA
Forward Voltage Display Range	0.000 to 7.000 V
Optical Power Display Range	0.00 to 1000.0 mW

PARAMETER	VALUE
Host Mainframe	LDC-3900
Bandwidth	Mode: less than 10 uA rms

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Output Current Range	0 to 1000 mA
Setpoint Resolution	0.1 mA
Setpoint Accuracy	plus or minus 0.1 percent of FS
Compliance Voltage	6 V
Temperature Coefficient	less than 100 ppm/C
Short Term Stability 1 hour	less than 20 ppm
Long Term Stability 24 hours	less than 40 ppm
Noise Ripple High Bandwidth Mode	less than 10 uA rms
Noise Ripple Low Bandwidth Mode	less than 5 uA rms
Noise Ripple With LNF320 Filter	less than 2.5 uA rms
Operational Transients	less than 2 mA
Drive Current Limit Range	0 to 1000 mA
Drive Current Limit Resolution	4 mA
Drive Current Limit Accuracy	plus or minus 10 mA
Photodiode Reverse Bias	0 to 5 V adjustable
Photodiode Current Range	0 to 10 mA
Photodiode Setpoint Accuracy	plus or minus 0.05 percent of FS
Modulation Input	0 to 10 V 10 kOhm
Modulation Transfer Function	100 mA/V
Modulation High Bandwidth	DC to 200 kHz
Modulation Low Bandwidth	DC to 5 kHz
Display Output Current Range	0 to 1000.0 mA
Display Output Current Resolution	0.1 mA
Forward Voltage Display Range	0.000 to 7.000 V
Optical Power Display Range	0.00 to 1000.0 mW
Host Mainframe	LDC-3900

Notes

Specs from ILX Lightwave LDC-3900 datasheet Current Source Modules table and CSM-39100 instruction manual for model 39100 / CSM-39100.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.