

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ILX LIGHTWAVE

ILX Lightwave TLS-8802 Fiber Optic Amplifier Controller

The ILX Lightwave TLS-8802 is a precision controller designed for managing fiber optic amplifiers. It offers precise control over amplifier parameters, ensuring optimal performance and stability in fiber optic systems. Ideal for research, development, and manufacturing applications requiring accurate control of fiber optic amplification.



MODEL

**ILX Lightwave
TLS-8802**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

TLS-8802

LISTING

<https://aumictechlabs.com/products/tls-8802-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

Operating Temperature: 0 °C to 40 °C Storage and Transportation Temperature: -40 °C to 70 °C
Maximum Relative Humidity: <80% RH (non-condensing) Maximum Altitude: 3000 m (9843 ft)
Indoor use only Electrical & Safety: Equipment Class: Class I (grounded type) Mains Supply
Voltage Tolerance: ±10% maximum fluctuation from nominal supply voltage Installation Category:
Category II for transient overvoltages Pollution Degree: 2 Continuous operation rated

TLS8802 Characteristics / Specifications

PARAMETER	VALUE
Model	TLS-8802
Instrument Type	fiber optic amplifier controller
Brand	ILX Lightwave
Remote Interface	GPIB
Control Functions	pump current and TEC class
Form Factor	benchtop controller
Series Family	ILX TLS amplifier controllers
Operating Temperature Class	0 C to 40 C
Storage Temperature Class	minus 20 C to 60 C class
Line Power	100/120/220/240 V class
Display	front panel status and setpoints
Use Case	EDFA and fiber amp control
Safety Interlocks	optical amp interlock class
Channel Architecture	multi channel amp control class
Current Compliance Class	pump diode compliance limits
Temperature Stability Class	TEC regulated
Manufacturer	ILX Lightwave
Modulation Class	bias modulation support class
Protection	open circuit and overtemp class
Rear Panel	GPIB and amp interconnects
Calibration	verify with ILX amp modules
Humidity Class	non condensing lab
Storage temperature	Class: minus 20 C to 60 C class
Operating temperature	Class: 0 C to 40 C
Humidity	Class: non condensing lab

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 20 C to 60 C class
Operating temperature	Class: 0 C to 40 C
Operating Temperature	Class: 0 C to 40 C
Humidity	Class: non condensing lab
Operating Temperature Class	0 C to 40 C
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Current Compliance Class	pump diode compliance limits
Temperature Stability Class	TEC regulated
Manufacturer	ILX Lightwave
Modulation Class	bias modulation support class
Protection	open circuit and overtemp class
Rear Panel	GPIO and amp interconnects
Calibration	verify with ILX amp modules
Humidity Class	non condensing lab Notes Identity and controller role from ILX Lightwave TLS-8802 product listings. Exact pump current/TEC numeric limits are module-dependent on the attached amplifier head.

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	
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Notes	
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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

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