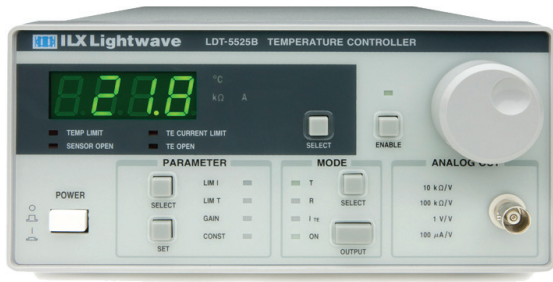


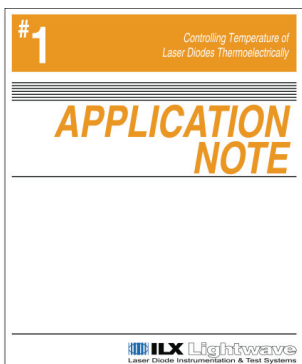
# laser diode temperature controllers



**LDT-5500B Laser Diode Temperature Controller**

- Five models with 4W to 120W control power
- Long term temperature stability as low as 0.005°C
- Adjustable TEC current limits
- Supports most thermistor, IC, and RTD temperature sensors
- Selectable sensor current
- Direct temperature display (°C) on most models
- USB or GPIB interface on most models

	LDT-5412	LDT-5525B	LDT-5545B	LDT-5948	LDT-5980
Output Power	4W	24W	50W	60W	120W
Output Current	2A	4A	5A	5A	10A
Output Voltage	2V	6V	10V	12V	12V
Temperature Stability	< ±0.05°C	< ±0.01°C	< ±0.01°C	< ±0.005°C	< ±0.005°C
Temperature Control Range	-----	-99°C to 199.99°C	-99°C to 199.99°C	-50°C to 250°C	-50°C to 250°C
Thermistor Sensor	Yes	Yes	Yes	Yes	Yes
IC Sensor	No	Yes	Yes	Yes	Yes
RTD	No	Yes	Yes	Yes	Yes
TEC Measurement	Current, resistance	Temperature, current, resistance	Temperature, current, resistance	Temperature, current, voltage, resistance	Temperature, current, voltage, resistance
AC Resistance Measurement	No	No	No	Yes	Yes
Control Loop	Hybrid P-I	Hybrid P-I	Hybrid P-I	Fully adjustable digital PID	Fully adjustable digital PID
Computer Interface	-----	USB	USB	GPIB	GPIB



Get temperature controller product information and our Application Note "Controlling Temperature of Laser Diodes Thermoelectrically" by visiting [www.ilxlightwave.com](http://www.ilxlightwave.com) or calling one of our sales engineers today at 1-800-459-9459.

**ILX Lightwave**  
Laser Diode Instrumentation & Test Systems



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