

The **ILX** *Difference*

The ILX difference gives you the competitive edge in test and measurement applications.

LDT-5900 Series Precision Temperature Controllers

Feature	Benefit
High Power Output (120 W, LDT-5980)	More power for faster temperature ramp times over a wide range of load conditions and temperatures.
High Stability ($\pm 0.005^{\circ}\text{C}$)	Ensures consistency and precision in laser wavelength critical applications for highly reliable test measurements.
0.001$^{\circ}\text{C}$ Set Point Resolution	Fine control of DFB wavelength, critical for wavelength tuning and for precision research and development applications.
Fully Adjustable PID Control Loop	Provides precise temperature control for faster settling times and better temperature stability, critical in multi-temperature device characterizations over a wide temperature range.
Four-Wire Measurements	Provides higher accuracy and precision measurements of TEC forward voltage and sensor response, critical where long control cables are used. Results in the most accurate temperature control and characterization of laser diode module power consumption.
AutoTune Function	Independently determines optimum PID control constants, reducing set-up time and effort.
Separate Heating and Cooling Limits	Optimizes temperature settling time when it is necessary to both rapidly heat and cool the device under test.
AC Resistance Measurements	Provides an accurate method to characterize Peltier devices during assembly, eliminating the need for a separate test instrument.
GPIO/IEEE-488 Interface/Trigger In/Out	Allows integration into an automated test system for repeatable and accurate test sequencing and data handling.