

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Newport / ILX Lightwave LDT-5412* at our website: *Click HERE*

Typical Long-Term Temperature Stability of an LDT-5412 Thermoelectric Temperature Controller

TECH NOTE

This technical note presents the results of long-term temperature stability measurement tests in a controlled environment performed on a production model LDT-5412 Thermoelectric Temperature Controller.

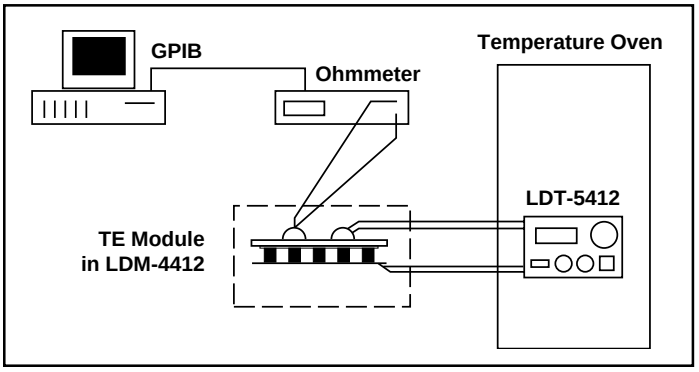


Figure 1. Measurement Setup Diagram.

MEASUREMENT SETUP

The measurement setup is shown in Figure 1. The LDT-5412 was placed in a temperature-controlled oven and stabilized for one hour at 25°C. Temperature data was taken by measuring the resistance of a precision thermistor which was independently connected to the load (LDM-4412). The load was also kept in a 25°C temperature-stable environment. The starting resistance was 15 kΩ (15°C). Raw data was fed to a computer and converted to temperature drift. Then these results were graphed, as shown in Figure 2.

RESULTS

It can be seen from the results in Figure 2 that the LDT-5412 exhibited a stability of better than ±0.005°C for a period of 24 hours when the load temperature was set at 15°C via the LDT-5412. This experiment was conducted in a controlled environment. If a similar experiment were conducted in an uncontrolled environment, the results may vary.

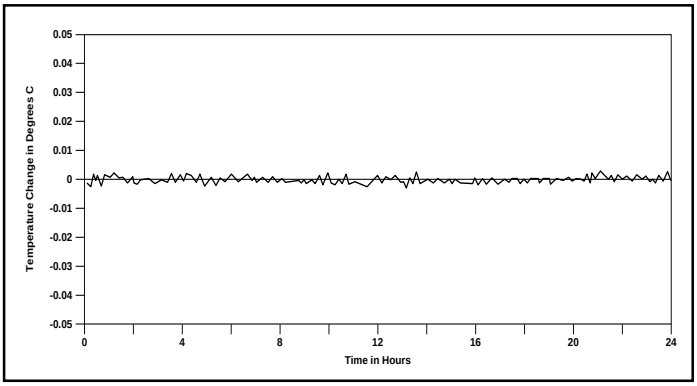


Figure 2. LDT-5412 Long-Term Stability Measurement Results.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP