

## About Temperature Broadcast

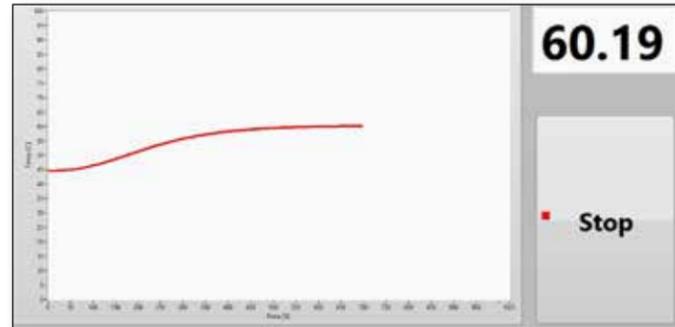
To ensure optimal laser performance and minimize system downtime Synrad added a key diagnostic feature to the vi40, real-time internal temperature measurements of the laser. Maintaining proper temperature levels of the laser is critical to ensuring optimal performance, and high temperature is a leading indicator of a potential fault condition.

The new Temperature Broadcast feature delivers temperature measurement data via a user output line at intervals of 250 ms. The real-time temperature data of the laser is especially useful for the following:

- **Machine/system control** - integrate into machine/system control systems to trigger automated air (fan) cooling of the laser
- **Predictive maintenance** - periodic monitoring of temperature readings to determine current operating trend and predict when maintenance will be required
- **Initial machine/system design** - verify proper ventilation and cooling of the laser to ensure optimal machine/system performance

- **Troubleshooting** - compare and contrast temperature measurements with corresponding power readings to analyze poor output and fault conditions

The new Temperature Broadcast feature adds a unique diagnostic capability to the new vi40 and helps to extend the operating life of the laser by providing operation-critical data to the user.



Raw temperature data is easily viewed using LabVIEW, MATLAB® or similar software. The image above shows the Temperature Broadcast data as displayed using LabView.



# NEW vi40 CO<sub>2</sub> Laser

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