The NCIT-LC Advanced is a powerful two-piece infrared temperature measurement system with miniature sensing head and separate communications electronics. The sensor is small enough to be installed just about anywhere, yet it outperforms much larger systems.

Available in a rugged cast metal electronics enclosure, the LC-Advanced offers a host of advanced signal processing features you won’t normally find in sensors costing much more.

Designed for an endless range of applications, the LC-Advanced features a variety of sensing head options. Low temperature sensors with a measurement range of -40°F to 1112°F (-40° to 600°C), fast response (<20 mSec) sensors, and 5 μm spectral response sensors, provide an impressive array of solutions for your process needs.

The rugged stainless steel sensing head ensures reliable long term performance in the harshest industrial environments. Although the LC-Advanced sensor is small in size, it has all the performance you need with 1% accuracy, and a choice of high resolution optics up to 22:1.

Standard features include adjustable Emissivity, Peak Hold, Valley Hold, and Averaging functions. All sensor parameters are easily adjustable on the built-in user interface keypad, or remotely with the Windows® 7 compatible DataTemp software via the built-in USB interface.

Advanced features further extend the power of the LC-Advanced and include user configurable alarm output, digital "recipe" table inputs that can be easily interfaced to an external control system, an external reset input for signal processing, and external inputs for analog emissivity adjustment or reflected energy compensation.

Optional RS485, Modbus® or Profibus® network interfaces simplify integration with a factory or machine control system.

The NCIT-LC Advanced — a new level of innovation and performance in non-contact temperature measurement!

**Specifications**

- **Spectral Response:** LT (Low Temp.)— 8 to 14 microns
  G5 (glass) — 5 microns
- **Optical Resolution:**
  - LTS — 2:1, 10:1, 22:1
  - LTF — 10:1
  - G5 — 22:1
- **Temperature Range:**
  - LTS (2:1, 10:1) -40° to 1112°F (-40° to 600°C)
  - LTF (LTS 22:1) 32° to 1832°F (0° to 1000°C)
  - G5S 482° to 3020°F (250° to 1650°C)
- **System Accuracy:** ±1% of reading or ±1°C, whichever is greater
- **Thermocouple Output Accuracy:** <1°F (0.5°C)
  ±1% of reading or ±2.5°C, whichever is greater
- **System Repeatability:** ±0.5% of reading or ±0.5°C (1°F), whichever is greater
- **Temperature Resolution:** LT 0.1°C or 0.2°F
  LTF 130ms (90%)
  G5 55ms (90%)
- **Emissivity:** 0.100 to 1.100 digitally adjustable increments of .001
- **Transmission:** 0.1 to 10.00 digitally adjustable increments of .001
- **Signal Processing:** Peak hold, valley hold, variable averaging filter, adjustable up to 998 seconds