**Beam-A-Temp™ Portable Infrared Thermometer**

Measures up to 1832°F/1000°C with 50:1 distance to target ratio

**Design Features**
- Built-in laser identifies target area.
- High and low alarms.
- Adjustable emissivity increases measurement accuracy for different surfaces.
- Adjustable High/Low setpoints alarm with audible alarm alerts user when temperature exceeds the programmed setpoints.
- MAX/MIN/AVG plus differential between MAX – MIN.
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels.
- High resolution of 0.1° up to 199.9°.
- Automatic Data Hold when trigger released.
- Auto power off.
- Wide temperature range from -58 to 1832°F (-50 to 1000°C).
- High 50:1 distance to target ratio measures smaller surface areas at greater distances.
- Complete with 9V battery and carrying case.
- 3-year warranty.

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>-58 to 1832°F (-50 to 1000°C)</td>
</tr>
<tr>
<td>Basic Accuracy</td>
<td>±2% of reading or +4°F/2°C</td>
</tr>
<tr>
<td>Maximum Resolution</td>
<td>0.1°F/°C</td>
</tr>
<tr>
<td>Emissivity</td>
<td>Adjustable</td>
</tr>
<tr>
<td>Field of View (Distance to Target)</td>
<td>50:1</td>
</tr>
<tr>
<td>Dimensions</td>
<td>3.9 × 2.2 × 9&quot; (100 × 56 × 230 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>10.2 oz. (290g)</td>
</tr>
</tbody>
</table>

**Agency Approval:**

Ordering Information

- Part Number REB30040 Portable IR Thermometer
- Part Number REB32040 Portable IR Thermometer with NIST Certificate

Standard lead time is stock to 3 weeks.

**Temperature range from -58 to 1832°F (-50 to 1000°C)!**

50:1 distance to target ratio

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
**Beam-A-Temp™ High Temperature Infrared Thermometer**

Measures surface temperature up to 1400°F/760°C

**Temperature range from -58 to 1400°F (-50 to 760°C)!**

**Design Features**

✴ Wide temperature range from -58 to 1400°F (-50 to 760°C).
✴ High 16:1 distance to target ratio measures smaller surface areas at greater distances.
✴ Adjustable emissivity from 0.1 to 1.00 increases measurement accuracy for different surfaces.
✴ Adjustable High/Low setpoints alarm with audible alarm alerts user when temperature exceeds the programmed setpoints.
✴ Data Hold, MAX/MIN/AVG plus differential between MAX – MIN.
✴ Built-in laser identifies target area.
✴ Backlit LCD display.
✴ High resolution of 0.1°F/°C.
✴ Auto power off.
✴ Complete with 9V battery and hard carrying case.
✴ 3-year warranty.

**Specifications**

**Range:** ................. -58 to 1400°F (-50 to 760°C)

**Basic Accuracy:** ............... ±2% of reading or 4°F/2°C <932°F (500°C); ±(2.5% of reading +5°F) >932°F (500°C)

**Maximum Resolution:** ........ 0.1°F/°C

**Emissivity:** ..................... 0.1 to 1.00 Adjustable

**Field of View (Distance to Target):** ... 16:1

**Dimensions:** ............... 3.9 × 2.2 × 9” (100 × 56 × 230 mm)

**Weight:** ....................... 10.2 oz. (290g)

**Agency Approval:**

**Applications**

✴ Measure the surface temperature of objects difficult to reach or unsafe to touch.
✴ Scan for hot spots on motors, electrical panels, electrical circuits and other equipment.
✴ Used extensively in processes where glass, iron and steel, non-ferrous materials, and minerals must be monitored.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REB30030</td>
<td>High Temperature IR Thermometer</td>
</tr>
<tr>
<td>REB32030</td>
<td>High Temperature IR Thermometer with NIST Certificate</td>
</tr>
</tbody>
</table>

*Standard lead time is stock to 3 weeks.*

**View Product Inventory @ www.tempco.com**

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Design Features

✴ Wide temperature range for IR temperature and type K thermocouple instruments.
✴ Automatic emissivity adjustment (for temperatures 212°F or higher).
✴ Memory stores up to 20 readings.
✴ Large LCD display with bright backlight for easy-to-read measurements and programming parameters.
✴ Laser pointer provides better aim and accuracy.
✴ Auto-hold activates when the measurement trigger is released.
✴ Adjustable high/low alarm alerts user visually and audibly when temperature exceeds programmed limits.
✴ MAX/MIN/AVG/DIF features display highest, lowest, average, and MAX minus MIN values.
✴ Data Hold, Auto Power Off, and low battery indication.
✴ Switches built into handle allow for °C/°F display selection, auto power off defeat, and alarm on/off control.
✴ Complete with 9V battery, type K thermocouple sensor (-4 to 482°F / -20 to 250°C), and carrying case.
✴ 1-year warranty.

Specifications

Display Counts: 4000 count backlit display
Range: Infrared: -58 to 1472°F (-50 to 800°C)
                  Type K: -58 to 2498°F (-50 to 1370°C)
Basic Accuracy: Infrared: ±2% of reading or ±4°F/2°C
                  Type K: (±1.5% of reading +2°F/1°C)

Maximum Resolution: 0.1°F/°C
Emissivity: Adjustable 0.10 to 1.00
Field of View: 13:1 distance to target ratio
Dimensions: 3.2 × 1.6 × 6.3" (82 × 42 × 160 mm)
Weight: 6.4 oz. (180g)

Agency Approval: CE

Ordering Information
Part Number REB30020 Wide Range IR Thermometer + Type K
Part Number REB32020 Wide Range IR Thermometer with NIST Certificate

Standard lead time is stock to 3 weeks.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

(800) 323-6859 • Email: sales@tempco.com
**Beam-A-Temp™ Wide Range Mini-Infrared Thermometer**

Measures non-contact surface temperature up to 1200°F/650°C

**Design Features**

- 12:1 distance to target ratio.
- Compact thermometer measures temperature from -58 to 1200°F (-50 to 650°C) with 0.1°F resolution up to 999.9°F.
- Adjustable High/Low setpoints with audible alarm alerts user when temperature exceeds the programmed setpoints.
- Adjustable emissivity for better accuracy on different surfaces.
- Built-in laser pointing identifies target area.
- Backlighting illuminates display for taking readings in low light areas.
- Data Hold and Min/Max.
- Over-range indicator.
- Complete with 9V battery and pouch case.

**Specifications**

- Temperature Range: ................. -58 to 1200°F (-50 to 650°C)
- Basic Accuracy: ..................... ±(1% of reading + 2°F/1°C)
- Maximum Resolution: ................. 0.1°F/°C; 1°F/°C
- Emissivity: ......................... 0.10 to 1.00 adjustable
- Repeatability: ....................... ±0.5% or ±1.8°F/°C
- Field of View: ......................... 12:1
- Dimensions: ......................... 3.2 × 1.6 × 6.3” (82 × 42 × 160 mm)
- Weight: ................................ 6.4 oz. (180g)

**Applications**

- Measure the surface temperature of objects difficult to reach or unsafe to touch.
- Scan for hot spots on motors, electrical panels, electrical circuits and other equipment.
- Used extensively in processes where glass, iron and steel, non-ferrous materials, and minerals must be monitored.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REB30012</td>
<td>Wide Range Mini-IR Thermometer</td>
</tr>
<tr>
<td>REB32012</td>
<td>Wide Range Mini-IR Thermometer with NIST Certificate</td>
</tr>
</tbody>
</table>

**Agency Approval:**

![CE Mark]

**Ordering Information**

Part Number REB30012 Wide Range Mini-IR Thermometer
Part Number REB32012 Wide Range Mini-IR Thermometer with NIST Certificate

*Standard lead time is stock to 3 weeks.*

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**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

View Product Inventory @ [www.tempco.com](http://www.tempco.com)
Instrumentation

Non-contact Temperature Measurement

Non-contact Infrared Temperature Measurement System — NCIT-LC Advanced

Design Features

- Rugged IP65 rated sensing heads survive ambient temperatures to 248°F (120°C) without cooling
- Precision high resolution optics, up to 22:1
- Fast response times of < 20 ms
- Miniature sensing head fits where other sensors can’t
- Intuitive user interface with high resolution LCD display
- Automatic sensing head detection — plug and play
- User configurable analog outputs (0/4-20mA, 0-5/10V, type J, K, R or S t/c)
- Isolated solid state alarm relay output
- Adjustable Emissivity, Peak Hold, Valley Hold and Averaging functions
- Standard USB 2.0 digital interface for remote setup

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 1832°F (-40°C to 1000°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 (LTS 22:1) 32º to 1832ºF (0º to 1000ºC)
  ..............G5S 482º to 3002ºF (250º to 1650ºC)
- Temperature Range:
  ..............LTS (2:1, 10:1) -40º to 1112ºF (-40º to 600ºC)
  ..............LTF (LTS 22:1) 32º to 1832ºF (0º to 1000ºC)
  ..............G5S 482º to 3002ºF (250º to 1650ºC)
- 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 20ms (90%)
  G5 55ms (90%)
- Emissivity: 0.100 to 1.100 digitally adjustable increments of .001
- Transmission: 0.1 to 1.000 digitally adjustable increments of .001
- Signal Processing: Peak hold, valley hold, variable averaging filter, adjustable up to 998 seconds
Non-contact Infrared Temperature Measurement System — NCIT-LC Advanced

Sensor Head Specifications

Environmental Rating: NEMA 4 (IP65)

Head Ambient Temperature Range: 14°C to 248°F (-10°C to 120°C)

With air cooling up to 392°F (200°C)

Cable Length: 3.3 ft (1m) standard, optional: 9.9 ft (3m), 26 ft (8m), 50 ft (15m)

Storage Temperature: -4°F to 185°F (-20°C to 85°C)

Relative Humidity: 10 to 90%, non-condensing

Construction: Stainless Steel

Weight with 1 m cable: 1.75 oz. (50g)

Available Sensor Heads

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Optics</th>
<th>Sensing Temperature Range</th>
<th>Response Time</th>
<th>Maximum Ambient Temperature</th>
<th>Type</th>
<th>Cable Length</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>REN30001</td>
<td>2:1</td>
<td>-40° to 1112°F (-40° to 600°C)</td>
<td>130ms</td>
<td>248°F/120°C</td>
<td>LTS</td>
<td>3.3 ft./1m</td>
<td>General Purpose</td>
</tr>
<tr>
<td>REN30002</td>
<td>10:1</td>
<td>-40° to 1112°F (-40° to 600°C)</td>
<td>130ms</td>
<td>248°F/120°C</td>
<td>LTS</td>
<td>3.3 ft./1m</td>
<td>General Purpose</td>
</tr>
<tr>
<td>REN30003</td>
<td>22:1</td>
<td>32° to 1832°F (0° to 1000°C)</td>
<td>130ms</td>
<td>248°F/120°C</td>
<td>LTS</td>
<td>3.3 ft./1m</td>
<td>General Purpose</td>
</tr>
<tr>
<td>REN30004</td>
<td>10:1</td>
<td>32° to 1832°F (0° to 1000°C)</td>
<td>20ms</td>
<td>248°F/120°C</td>
<td>LTF</td>
<td>3.3 ft./1m</td>
<td>Fast Response</td>
</tr>
<tr>
<td>REN30005</td>
<td>10:1</td>
<td>482° to 3002°F (250° to 1650°C)</td>
<td>130ms</td>
<td>248°F/120°C</td>
<td>G5</td>
<td>3.3 ft./1m</td>
<td>5µm sensing for glass applications</td>
</tr>
</tbody>
</table>

The NCIT-LC Advanced Infrared sensor heads can be supplied with the following optional cable lengths:

- 10 ft. / 3m cable
- 26 ft. / 8m cable
- 49 ft. / 15m cable
- 98 ft. / 30m cable

Calibration Certificate with NIST/DKD traceability can be provided. Specify when ordering.
### REN30101 NCIT-LC Advanced Electronics and Enclosure Specifications

**Digital Interface:** USB 2.0  
(RS485, Modbus® or Profibus® optional)

**Outputs:** Scalable 4-20mA, 0-20mA,  
0-10V, 0-5V, J, K, R or S thermocouple

**Inputs:** Digital inputs for emissivity control, ambient background temperature compensation, trigger/hold input

**Alarm Relay:** 48 VAC, 300 mA optically isolated solid state relay

**Output Impedance (TC output):** 20 ohms

**Minimum Load Impedance:** (mV output): 10K ohms

**Maximum Loop Impedance:** (mV output): 500 ohms

**Power Draw:** 4W max

**Power Supply:** 8-32VDC

**Housing Construction:** Zinc, die cast

**Environmental Rating:** NEMA 4 (IP65)

**Electronics Housing, Max. Temp.:** 14° to 150°F (-10° to 65°C)

**Storage Temperature:** -4° to 185°F (-20 to 85°C)

**Relative Humidity:** 10 to 95%, non-condensing

**Electronics Weight:** 9.5 oz. (270g)

The REN30101 NCIT-LC Advanced Electronics and Enclosure can also be ordered with the infrared sensor head pre-installed.

Specify which Sensor Head meets your requirements when ordering.

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**Ordering Information**

Select the part numbers of the NCIT-LC Advanced Sensor Head, Electronics/Enclosure and Accessories that meet your requirements.

*Standard lead time is stock to 4 weeks.*

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**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Non-contact Temperature Measurement System — NCIT-LLC Series

The NCIT - LLC model provides the advantages of infrared temperature measurement in a compact, low cost, integrated sensor. Designed for easy integration with a standard 4-wire system, the CI sensor can easily replace traditional contact probes with a type J or K thermocouple output, or with a 0-5 volt dc output if your application is susceptible to noise or requires a longer cable run.

Design Features
- Type J or K thermocouple, or 0-5 VDC output
- Two models cover temperature ranges from 32° to 932°F (0° to 932°F)
- NEMA 4 (IP 65) stainless steel housing
- 4:1 optics at 90% energy
- 350 ms response time to 90% energy
- Powered by 12-24 VDC at 20 mA
- Accessories for cooling and air purging

Measurement Specifications
Overall Temperature Range: 32° to 662°F (0° to 350°C)
- Accuracy: 32° - 240°F (0° - 115°C): ±6°F (±3°C)
- 241° - 440°F (116° - 225°C): ±5%
- 441° - 662°F (116° - 225°C): ±5%

Overall Temperature Range: 86° to 932°F (30° to 500°C)
- Accuracy: 86° - 211°F (30° - 99°C): ±10°F (±6°C)
- 212° - 932°F (100° - 500°C): ±2% or ±6°F (3°C)

Spectral Response: 7 to 18 microns
Repeatability: 1% of reading or ±2°F (1°C)
Temperature Resolution: <1°F (0.5°C)
Response Time (95%): 350 ms
Emissivity: Fixed at 0.95

Electrical Specifications
- Outputs: Select Type J or K thermocouple or 10 mV/°C
- Output Impedance: 50 ohms
- Min. Load Impedance: 50K ohms
- Power Supply: 12 - 24 Vdc @ 20 mA
- Standard Cable Length: 3.2 ft. (1 m)

Sensor Specifications
- Environmental Rating: NEMA 4 (IP65)
- Ambient Temperature Range: 32° to 160°F (0 to 70°C)
  - With air cooling
  - 32° to 200°F (0 to 90°C)
  - With water cooling
  - 32° to 500°F (0 to 260°C)
- Thread: 3/4-16 UNF, optional 18M x 1
- Storage Temperature: -22° to 185°F (-30 to 85°C)
- Relative Humidity: 10 to 90%, non-condensing
- Weight: 4.5 oz. (130g)

Accessories
- Fixed Mounting Bracket
- Adjustable Mounting Bracket
- Lens Air Purge Collar
- Right Angle Mirror
- Coolable housing with air purge
- 18M x 1 metric thread instead of 3/4-16 UNF
- None

Ordering Information
Create an ordering code by filling in the boxes per your requirements and a part number will be assigned.

Standard lead time is stock to 4 weeks.
**Non-contact Temperature Measurement System — NCIT Plus Series**

### Design Features
- 0° to 1000°F (-18 to 538°C)
- Compact 1/8 DIN digital monitor with large 4-digit display
- User-defined thermocouple or 4-20 mA output
- Universal 110-220 VAC power input
- Adjustable emissivity at ambient parameters
- Adjustable dual setpoints and deadband alarm outputs
- Choice of sensing head to match application
- Standard and close focus optics available
- Accessories for cooling and air purging
- Field interchangeable sensing heads

### Common Industrial Applications
- Plastics
- Paper & Pulp Converting
- Chemicals
- Food Processing
- Pharmaceutical
- Electronics
- Construction
- Industrial Maintenance

**1/8 DIN NCIT Plus Monitor**
Along with its large 4-digit LED display, the monitor provides a user-defined 4-20 mA or thermocouple output. Two adjustable setpoints/deadbands control 5V alarm outputs or optional 3A mechanical relays. The **NCIT Plus Monitor** accepts universal 110-220 Vac power input and provides a 24 Vdc / 50 mA excitation voltage for loop power to external sensors. All monitor functions are configured via the front panel, including °C/°F switching.

The **NCIT Plus Monitor** provides adjustable emissivity and ambient compensation when used with the **NCIT Plus Standard** infrared sensing heads.

### Standard Sensing Heads
These high performance, 8-14 micron sensors combine current loop driven signals with high resolution optics.

The **NCIT Plus Standard w/ Laser** sensing head comes equipped with laser sighting for alignment in hard to reach locations, or to small or distant targets. The 50:1 distance to spot (D:S) ratio provides the capability of measuring a spot size of 1.2" at a distance of 5 ft.

The **NCIT Plus Standard** sensing head’s D:S ratio of 35:1 allows a spot size of 1.7" at a distance of 5 ft.

### Proven Technology
Non-contact infrared temperature sensors have proven advantageous and reliable in many industries for over 25 years. Tempco brings this technology to you at a price competitive with thermocouples.
Measurement Specifications

Temperature Range (All Sensor Heads): 0 to 1000°F (-18 to 538°C)
Spectral Response: Standard & Laser: 8 to 14 µm
Optical Resolution: Laser: 50:1, close focus 45:1
Standard: 35:1, close focus 30:1
System Accuracy: ±1% or ±2°F (±1°C), whichever is greater
System Repeatability: ±0.5% or ±2°F (±1°C), whichever is greater
Response Time – (95% of final reading): Standard & Laser: 500 ms
Emissivity: Digitally adjustable, 0.1 to 1.09 by increments of 0.01 steps
Signal Processing: Peak and valley hold (up to 998 sec, 999 = infinite hold with external reset), Variable averaging filter (up to 60 sec), T-ambient: fixed background ambient temperature compensation

Electrical Specifications

Power Supply: 110 /220 V AC, ±20%, 50-60 Hz
Inputs: User configurable inputs for Laser or Standard sensing heads, any 5-0 Vdc or 4-20 mA sensor, or thermocouple (J, K, E, N, R, S, T)
External reset input to reset peak/valley hold
Outputs-Signal: 4-digit, LED display, °F/°C selectable.
User configurable 4-20 mA current or thermocouple output (J, K, E, N, R, S, T)
Alarm Output: Two adjustable setpoints with deadbands controlling +5 Vdc alarm outputs or optional 3A mechanical relays
DC Supply Output: 24 Vdc / 50 mA excitation voltage for powering external sensors

Sensor Specifications

Environmental Rating: Monitor Front Panel: NEMA 12 (IP54)
Laser/Standard Head: NEMA 12 (IP65)
Ambient Temperature: Monitor
32° to 120°F (0 to 50°C)
Laser/Standard Head
32° to 150°F (0 to 65°C)
laser shuts off automatically at 120°F (50°C)
With water cooling
32° to 350°F (0 to 177°C)
With air cooling
32° to 250°F (0 to 120°C)
Relative Humidity: 10 to 95%, non-condensing
Monitor Dimensions: 1/8 DIN, 96 × 48 × 120 mm
1.9” × 3.78” × 4.75”
Cutout Dimensions: 1.75” × 3.63” (92 × 44 mm)
Weight: Monitor: 320g (0.7 lb.)
Infrared Temperature Measurement — NCIT Plus Series

NCIT Plus Monitor
REN01001 1/8 DIN Panel Meter 110/220VAC
   w/ 5 Vdc alarm outputs
REN01003 1/8 DIN Panel Meter 110/220VAC
   with optional 3A relays for alarm outputs
REN01002 Light duty aluminum mounting bracket to allow
   for sub-panel mounting

NCIT Plus Standard Sensing Heads
   (includes mounting bracket and nut)
REN01101 Standard focus infrared sensing head, 35:1 optics
REN01102 Standard – close focus infrared sensing head,
   30:1 optics
REN01120 NIST/DKD calibration certificate (also for
   water cooled) Must be ordered with unit.

With Water Cooled Housing and Lens Air Purge Collar
REN01110 Standard focus infrared sensing head
REN01111 Standard – close focus infrared sensing head

NCIT Plus Standard with Laser Sight Sensing Heads
   (includes an adjustable mounting bracket and nut,
   13 ft. (4m) cable for between the sensor and the
   laser switch box, and 26 ft. (8m) cable to connect
   the laser switch box to the NCIT Plus Monitor)
REN01103 Standard focus infrared sensing head, 50:1 optics
REN01104 Standard – close focus infrared sensing head,
   45:1 optics
REN01121 NIST/DKD calibration certificate (also for
   water cooled) Must be ordered with unit.

With Water Cooled Housing and Lens Air Purge Collar
REN01112 Standard focus infrared sensing head
REN01113 Standard – close focus infrared sensing head

Air/Water Cooled Sensing Head
The Air/Water-Cooled Housing option allows the
laser or standard sensor to be used in ambient
   temperatures up to 250°F (121°C) with air cooling,
   or 350°F (177°C) with water cooling. It is
   supplied with two 1/8” NPT brass fittings.

Air flow at 77°F (25°C) should be 3 to 5 cfm (1.4
to 2.4 liters/sec) with a pressure drop across
   the housing of 2 to 5 PSIG (0.14 to 0.35 kg/cm²).
Water flow should be approximately 0.5 gallons
   (2 liters) per minute; water temperature should
   be 50 to 80°F (10 to 27°C) for efficient cooling.
   All units ordered with the Air/Water-Cooled
   Housing include the Air Purge Collar to avoid
   condensation and lens damage.

Note: The laser-equipped standard sensing head is 125 mm (4.92") long.
The laser shuts off automatically at
120°F (50°C).

Standard / Laser Sensing Heads
All Standard sensors are supplied with a fixed bracket and a mounting nut.
Alternatively, the sensor may be mounted through a hole, on a customer-supplied
   bracket, with the pipe adapter, or with other accessories. Avoid installing the sensor
   cable in noisy electrical environments. In this environment, it is recommended to
   install the cable in conduit. A conduit adapter accessory is available for this purpose.

Note: The laser-equipped standard sensing head is 125 mm (4.92") long.
Pipe Adapter:
The Pipe Adapter is used to connect the Standard or Laser Head to a 1.5 inch NPT pipe thread.

Conduit Adapter
The Pipe Adapter is used to connect the Standard or Laser Head to a 1/2-inch NPT conduit fitting.

Lens Air Purge Collar:
The Air Purge Collar accessory is used to keep dust, moisture, airborne particles and vapors away from the lens. It may be installed before or after the bracket. Air flow should be a maximum of 1-3 cfm (0.5-1.5 liters/sec). Clean or “instrument” air is recommended to avoid contaminants from settling on the lens.

NCIT Plus Standard Sensing Head Cables
5 conductor cables for connecting the standard sensing head to the panel meter.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REN01201</td>
<td>13 ft.</td>
<td>Regular temperature</td>
</tr>
<tr>
<td>REN01202</td>
<td>13 ft.</td>
<td>High temperature for Air/Water cooled Sensing Head</td>
</tr>
<tr>
<td>REN01203</td>
<td>26 ft.</td>
<td>Regular temperature</td>
</tr>
<tr>
<td>REN01204</td>
<td>26 ft.</td>
<td>High temperature for Air/Water cooled Sensing Head</td>
</tr>
</tbody>
</table>

Additional Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REN00208</td>
<td>Fixed mounting bracket for the regular sensing head</td>
</tr>
<tr>
<td>REN00213</td>
<td>Adjustable mounting bracket for the regular sensing head</td>
</tr>
<tr>
<td>REN00207</td>
<td>Mounting nut</td>
</tr>
</tbody>
</table>

Used in conjunction with the Standard or Laser Sensing Head.

Ordering Information
Choose the NCIT Plus, accessories, and/or options desired, and order by the associated part number.

Standard lead time is stock to 3 weeks.

⚠️ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.