

Non-contact Thermometers – Portable

Beam-A-Temp[™] Wide Range Mini-Infrared Thermometer

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



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.



12:1 distance to target ratio

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

12-30 Rev 2 (09-2024)

Non-contact Thermometers — Portable

Beam-A-Temp[™] Wide Range Infrared Thermometer with Type K input

Since 1972

Measures both non-contact and contact temperature with type K thermocouple input





Non-contact Thermometers – Portable

Beam-A-Temp[™] High Temperature Infrared Thermometer

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

Temperature range from **Design Features** -58 to 1400°F (-50 to 760°C)! * 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 betw MAX – MIN. * Built-in laser identifies target area. ***** Backlit LCD display. * High resolution of 0.1° up to 199.9 * Auto power off. * Complete with 9V battery nd har arrying case. * 3-year warranty. Specificat Range -58 to 1400°F (-50 to 760°C) ±2% of reading or 4°F/2°C <932°F Bas Accu $(500^{\circ}C); \pm (2.5\% \text{ of reading } +5^{\circ})$ >932°F (500°C) num Resolution: 0.1°F/°C Max ssivity: 0.1 to 1.00 Adjustable Field of View (Distance to Target): ... 16:1 Agency Approval: 🤇 🗲

Application

- Measure the aface 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

Part Number **REB30030** High Temperature IR Thermometer Part Number REB32030 High Temperature IR Thermometer with NIST Certificate Standard lead time is stock to 3 weeks.



16:1 distance to target ratio

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

Since 1972 Non-contact Thermometers — Portable

Beam-A-Temp[™] Portable Infrared Thermometer

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



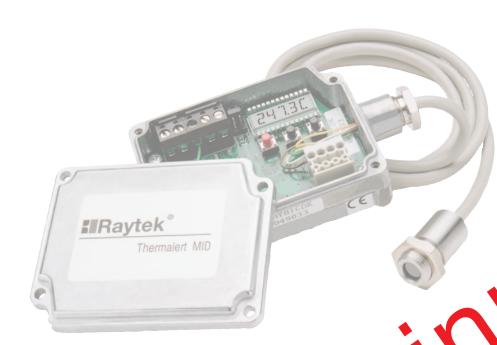
50:1 distance to target ratio

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



Non-contact Temperature Measurement

Non-contact Infrared Temperature Measurement System — NCIT-LC Plus Series



Proven Technology

PRECISION INFRARED TEMPERATURE MEASUREMENT has been around for years to increase productivity, reduce costs and improve product quality. Microfabrication tel ave allo niques the size to redu cost of on sensor fits of bringing th be this technology to a new group of users.

Many of the NCIT-LC Plus's features are typically only available on larger and more expensive units and offer more flexibility through remote monitoring and control of all sensor variables.

World's Small IR The NCIT-LC Pl is a v satile two-piece ture sensing head and system nin electr ics. The sensor is small separat լջի be in alled just about anywhere, well as much larger systems. vet it perio The sensor is housed in rugged stainless steel ep are long-term performance, even in harsn environments with ambient tempera-tures up to 85°C (185°F). And the NCIT-LC Plus's response time is as fast or faster than many high-end systems.

Rugged, Reliable, Practical Features

The NCIT-LC Plus's electronics include: Emissivity and selectable Peak Hold, Valley Hold, and Averaging, all of which (including output type) are programmable on the 5-digit/ 3-button LCD user interface.

Accessories, including an air purge jacket, air cooling jacket, and mounting adapters, ensure accuracy in applications ranging from plastics manufacturing to food processing.

Design Features

- * -40°F to 1132°F (-40° to 600°C)
- * Compact and Rugged
- * 5-digit backlit LCD User Interface
- * Designed for Online Monitoring and Control
- * Ultra-Fast Response Time 150 ms
- * Stainless Steel Sensing Head
- * 10:1 and 22:1 Op.
- * 0/4 20 mA, 0 5ve J or K thermod Aple & tputs
- * Choice of 3 ft. 10 ft. 🔥 le
- K Mour ing Pardwa Ancluded
 - 2-24 JC P vered

omin Industrial Applications

- astics
- Paper and Pulp Converting
- Food Processing
- ➡ Electronics
- Construction
- ➡ Industrial Maintenance

Optional Communications for PC Interfacing

Even more features are available with optional RS-232 or RS-485 communications and the new DataTemp® Multidrop Software. These features include remote control and monitoring of all sensor variables, a 5V alarm signal triggered by a target temperature or head ambient temperature. Also included is an 8-position "recipe" table that can be easily interfaced to an external control system, an external reset signal input for signal processing, and even external inputs for analog emissivity adjustment or reflected energy compensation.

Lower cost sensors are available with fixed emissivity; consult Tempco for further details.

Non-contact Temperature Measurement

Non-contact Infrared Temperature Measurement System — NCIT-LC Plus Series

Since 1972

Measurement Specifications

Temperature Range:	-40 to 1112°F (-40 to 600°C)
Spectral Response:	8 to 14 μm
Optical Resolution:	10:1
System Accuracy:	$\pm 1\%$ or $\pm 1^{\circ}$ C, whichever is greater
Repeatability:	$\pm 0.5\%$ or ± 0.5 °C, whichever is greater
Response Time:	150 ms, 95% of final reading
Emissivity:	Digitally adjustable, 0.1 to 1.10 by increments of 0.001 steps
Signal Processing:	Peak hold, Valley hold, Variable averaging

filter, adjustable up to 998 sec.

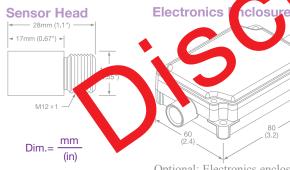
Signal Processing:

Electrical Specifications

Programmable Outputs:	0/4 - 20 mA, 0 - 5 Vdc (scalable) J or K thermocouple 10 mV / °C head ambient signal
Power (user to supply unit):	12 - 24 Vdc @ 100 mA
Max. Loop Impedance:	500 Ω with 24 Vdc power supply

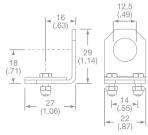
Sensor Specifications

Environmental Rating:	NEMA 4 (IP65)
Max. Ambient Temperature:	Sensing head: 32° to 185°F (0 to 85°C) With air cooling up to 392°F (200°C) Elect. housing: 32° to 149°F (0 to 65°C)
Relative Humidity:	10 to 95%, non-condensing
Weight:	Sensing head: 50g w/cable, stainless st Electronics housing: 270g, Zine die-cas



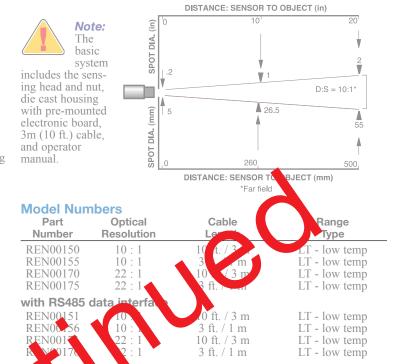
Optional: Electronics enclosure with view port window in cover Part Number: REN00308

Adjustable Mounting Bracket - REN00303



	tical Len Purging	s Jacket – REN	00302
∲ 21 (.83) ∳		47 (1.85)	I.D.

25 (1.0)



Com n Accessory Connection Kits are required for setup unicat d mo tering of extended multi-drop features. One kit can service tiple sensors. These kits contain DataTemp[®] Multi-Drop software and onnectors to provide for simple setup of analog/digital inputs and outputs of the optional RS232 or RS485 interface via a PC.

- **REN00306** RS485 2-wire connection kit provides for setup and monitoring via DataTemp® Multi-Drop software and a RS485/RS232 converter provided with 110Vac power supply
- RS232 connection kit provides for setup and monitoring via DataTemp[®] Multi-Drop software and a 3-wire RS232 connection

REN00209 — Power supply: 12 Vdc at 200 mA, 120 Vac input

Air Cooling System – REN00301	4 (.15) 4 (.157) 4 (.157) 4 (.157) 4 (.157) 4 (.157) 4 (.118) 4 (.155) 4 (.155) 4 (.118) 4 (.
with 2.8 ft. (0.8m) of insulated air hose	





Non-contact Temperature Measurement

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



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, Advanced offers a host of advanced signal pro you won't normally find in sensors costing mu more

Designed for an endless range of Advanced features a variety of sensing head optiperature sensors with a measurement se <20 40°C to 1000°C), fast respo spectral response sensors, ovi tions for your process i eds

ions, he LClica . Low temnge of 40°F to 1832°F (-Sec) ensors, and 5 µm impressive array of solu-

a stainle sensing head ensures reliable long The rug ste the carshest industrial environments. need sensor is small in size, it has all the term per rmance i LC-Adv Although th a with 1% accuracy, and a choice of high performance ou ne to 22:1. resolution opt

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!

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 Hol and Averaging functions
- * Standard USB 2.0 digitater emote setud for

Response:LT (Low Temp.)— 8 to 14 microns

......G5 (glass)— 5 microns

G5S

- On
 - cal Resolution: LTS 2:1, 10:1, 22:1 LTF — 10:1 G5 — 22:1

Temperature Range:

-40° to 1112°F (-40° to 600°C) LTS (2:1, 10:1) LTF (LTS 22:1) 32° to 1832°F (0° to 1000°C) 482° to 3002°F (250° to 1650°C)

System Accuracy: $\pm 1\%$ of reading or $\pm 1^{\circ}$ C, whichever is greater Thermocouple Output Accuracy: <1°F (0.5°C)

 $\pm 1\%$ of reading or ± 2.5 °C, whichever is greater

System Repeatability: $\pm 0.5\%$ of reading or ± 0.5 °C (1°F), whichever is greater

- Temperature Resolution: LT 0.1°C or 0.2°F
- System Response Time: LTS 130ms (90%)
 - 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

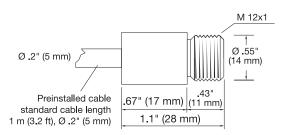
Signal Processing: Peak hold, valley hold, variable averaging filter, adjustable up to 998 seconds

Non-contact Temperature Measurement Since 1972

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

Sensor Head Specifications

Environmental Rating: NEMA 4 (IP65) Head Ambient Temperature Range: 14° to 248°F (-10° to 120°C) With air cooling up to $392^{\circ}F(200^{\circ}C)$ Cable Length: 3.3 ft (1m) standard, optional: 9.9 ft (3m), 26 ft (8m), 50 ft. (15m) **Storage Temperature:** -4° to 185° F (20° 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

Parl Numb		s		emperature	Response Time	Maximum Ambient Temperature	Туре	Cable Length		ents	
REN30				F (-40° to 600°C)	130ms	248°F/120°C	LTS	3.3 ft./1m		ral A pose	
REN30				F (-40° to 600°C)	130ms	248°F/120°C	LTS	3.3 ft./1m		ral Propose	
REN30				F (0° to 1000°C)	130ms	248°F/120°C	LTS	3.3 / IM		ral rpose	
REN30				F (0° to 1000°C)	20ms	248°F/120°C	LTF	3.3 t./1 3.3 1m		Response	
REN30	0005 10:1		482° to 3002°F	(250° to 1650°C) 130ms	248°F/120°C	G5	3.3 m		sensing for applications	s
plied with 10 ft. / 3m 26 ft. / 8m 49 ft. / 15r 98 ft. / 30r	the followi cable cable m cable m cable	ng	optional cable	or heads can be s lengths: aceability can be		0.24	0.2 D:S =	0.00 = 10:1 0.24 0.04	-	0.98 1.18	in.
	y when orde				F-~						
			S	C		6	4	1 6	I	18 25 30	mm
	Dist		Ce: Sensor to Ob			0			20	24 25 30	- mm
i. (in) O		5.9		ject (in) 3 15.7	S=2:1	0		10 15	20 focus a	24 25 30 ACCESSORY	1.18
Dia. (in) O ⁻		-	ce: Sensor to Ob	ject (in) 3 15.7	S=2:1	0 10:1 op	0.2	10 15 iith close 1	20 focus a	25 30 ACCESSORY	/
pot Dia. (in) o		-	ce: Sensor to Ob	ject (in) 3 15.7 D:	S=2:1	0 10:1 op	0.2	10 15 ith close 0.4 0.6 S = 22:1	20 focus a 0.78 0.24	24 25 30 ACCESSORY	1.18
Spot Dia. (in)		5.9	ce: Sensor to Ob	ject (in) 3 15.7 3 0.71	S=2:1 S=10:1	0 10:1 op	0.2	10 15 ith close 0.4 0.6 S = 22:1 0.12	20 focus a 0.78 0.24	25 30 ACCESSORY	1.18
Spot Dia. (in) 70		5.9	ce: Sensor to Ob	ject (in) 3 15.7 3 0.71 ↓ D:	S=10:1	0 10:1 op	0.2 D::	10 15 ith close 0.4 0.6 S = 22:1	20 focus a 0.78 0.24	25 30 accessory	1.18
		5.9	ce: Sensor to Ob	ject (in) 3 15.7 3 0.71 ↓ D:		0 10:1 op	0.2 D::	10 15 ith close 0.4 0.6 S = 22:1 0.12	20 focus a 0.78 0.24	25 30 accessory	1.18
		5.9	5 1.18	ject (in) 3 15.7 3 0.71 	S=10:1	0 10:1 op	0.2 D:12	$ \begin{array}{c} 10 & 15 \\ 10 & 15 \\ 15 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16$	20 focus a 0.78 0.24	25 30 accessory	1.18
		5.9	5 1.18	ject (in) 3 15.7 3 0.71 ↓ D:	S=10:1	0 10:1 op	0.2 D::	10 15 10 15 10 15 15 10 0.6 S = 22:1 0.02 0.12	20 focus a 0.24	25 30 accessory	1.18
		2.9	5 1.18	ject (in) 3 15.7 3 0.71 	S=10:1	0 10:1 op	0.2 D:12	$ \begin{array}{c} 10 & 15 \\ 10 & 15 \\ 15 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16$	20 focus a 0.78 0.24	0.98 1 0.35	1.18
		2.9	5 1.18	ject (in) 3 15.7 3 0.71	S=10:1	0 10:1 op	0.2 D:12	$ \begin{array}{c} 10 & 15 \\ 10 & 15 \\ 15 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16$	20 focus a 0.24	0.98 1 0.35	1.18

22:1 optics with close focus accessory



2:1, 10:1 and 22:1 optics

Distance: Sensor to Object (mm)

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in.



Non-contact Temperature Measurement

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



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.

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.

Close focus lens accessory. 10 mm focus distance. Power supply: 12 Vdc at 200 mA, 120 Vac input **REN00305** Sensing head, fixed mounting bracket

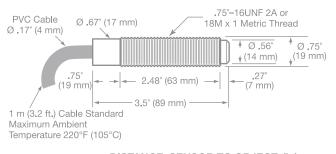
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

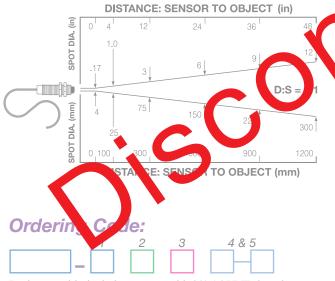
Non-contact Temperature Measurement Since 1972

Non-contact Infrared Temperature Measurement System — NCIT-LLC Series

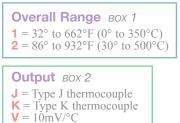


The NCIT - LLC model provides the advantages of infrared temperature measurement in a compact, low cost, integrated sensor. Designed for easy integration with a standard 4-wire system, the CI sensor can easily replace traditional contact probes with a type J or K thermocouple output, or with a 0-5 volt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





Basic assembly includes: sensor with 3/4-16 UNF thread, preinstalled 3.3 ft./1 m cable and two mounting nuts.



Cable Length and Type BOX 3 A = 3.3 ft./1m cable - 220°F/105°C B = 10 ft./3m cable - 220°F/105°C $C = 50 \text{ ft.}/15 \text{m} \text{ cable} - 220^{\circ} \text{F}/105^{\circ} \text{C}$ Specify D, E or F if ordering coolable housing D = 3.3 ft./1m cable - 500°F/260°C E = 10 ft./3m cable - 500°F/260°C $F = 50 \text{ ft.}/15 \text{m} \text{ cable} - 500^{\circ} \text{F}/260^{\circ} \text{C}$

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

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



Elec cal opecifications

utputs Select Type J or K thermocouple or 10 mV / °C Jut 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

Accessories P

d

Part Number	Description
REN25001	Fixed Mounting Bracket
REN25002	Adjustable Mounting Bracket
REN25003	Lens Air Purge Collar
REN25004	Right Angle Mirror

Options (Select 2) BOX 4 & 5

C = Coolable housing with air purge $M = 18M \times 1$ metric thread instead of 3/4-16 UNF N = 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.

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Raytek

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Non-contact Temperature Measurement

Non-contact Infrared 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 λ atch application
- * Standard and close fo s available
- * Accessories for cooli purging and a
- * Field intera ang o heads

Common dus olications

- → Pharmaceutical
- ➡ Electronics
- → Construction
- ➡ Industrial Maintenance

If temperature is a factor in your quality and manufacturing yield, then put this technology to work for you.

Thermalert

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Non-contact Temperature Mea urei for Industrial Pro

The NCIT Plus Series is a versatile two-piece temperature res monitoring system that cormonitor with an frare sensing h system is the 1/8 DIN N advanced valley nd, aven

compart, value-priced he heart of the BOLTATE estimation for the heart of the 8 DPN Notice rus. Monitor which provides 9 processing cape alities including peak and 1 sing, and user adjustable offset.

Advantes in optica and electronic design, originally devel-oped folgigh-end afrared systems, have been adapted to this low-elect line without compromise in performance when computer to infrared sensors that cost twice as much just a few years ago.

The NCIT Plus models can't scratch, tear, smear or contaminate because they don't make contact with your product. They are easier and safer to install and maintain because they can be positioned away from hot and hazardous processes and moving products.

They remain accurate over a longer period of time because they're not subjected to the abuse that a contact device receives. And they deliver much faster response time than contact thermocouples, while rivaling their accuracy and repeatability.

In the long run, non-contact temperature measurement can help you improve quality, speed production, and save money.

1/8 DIN NCIT Plus Monitor

micals

Food Processing

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Along with its large 4-digit LED display, the monitor provides a user-defined 4-20mA 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.

Since 1972 Non-contact Temperature Measurement

Non-contact Infrared Temperature Measurement System — NCIT Plus Series

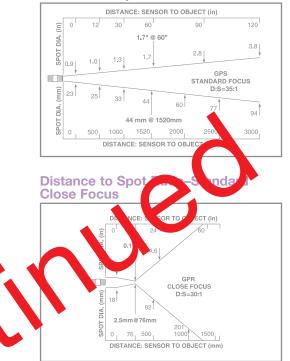
Measurement Specifications

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:	$\pm 1\%$ or $\pm 2^{\circ}$ F ($\pm 1^{\circ}$ C), whichever is greater
System Repeatability:	$\pm 0.5\%$ or $\pm 2^{\circ}$ F ($\pm 1^{\circ}$ 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

Distance to Spot Ratio–Standard



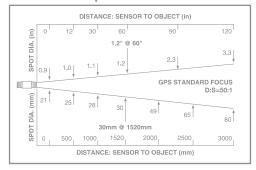
Electrical Specifications

Cutout Dimensions:

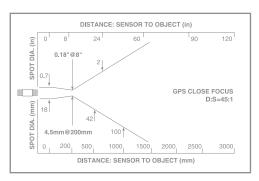
Weight:

Power Supply:	110 /220 VAC, ±20%, 50-60 Hz
Inputs:	User configurable inputs for Laser or Standard sensing heads, any 5-0 Vdc or 4-20 mA sensor, or thermocourt (J, K, E, N, R, S, T) External reset input to reserve ak/value how
Outputs-Signal:	4-digit, LED display, 27°C sesetable. User configurable 4-20 mA current or thermocounter out ut (J, KEE, N, R, S, T)
Alarm Output:	Two a sustable setper with deadbands control of the blc alarm outputs or optional 3 mechanical clays
DC Supply Coput:	24 V c / 50 mA excitation voltage for ower g external sensors
Sensor Specify atir	S
Environmental Rating:	Monitor Front Panel: NEMA 12 (IP54) Laser/Standard Head: NEMA 12 (IP65)
Ambient Temperature: Monitor Laser/Standard Head With water cooling With air cooling	32° to 120°F (0 to 50°C) 32° to 150°F (0 to 65°C) laser shuts off automatically at 120°F (50°C) 32° to 350°F (0 to 177°C) 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"

Distance to Spot Ratio-Laser



Distance to Spot Ratio–Laser



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 $1.75'' \times 3.63'' (92 \times 44 \text{ mm})$

Monitor: 320g (0.7 lb.)



Non-contact Temperature Measurement si

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 m	ounting 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 Co	oled Housing and Lens Air Purge Collar
REN01110	Standard focus infrared sensing head
DENO1111	Standard slave frame informed anning hand

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 REN01104	Standard focus infrared sensing head, 50:1 optics Standard – close focus infrared sensing head,
	45:1 optics
REN01121	NIST/DKD calibration certificate (als
	water cooled) <i>Must be ordered who unit.</i>
With Water Co	oled Housing and Lens Air Press Color
REN01112	Standard focus infrared serving head
REN01113	Standard – close focus in ared serving 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.



Ac flow (77°F 15°C) should be **3 to 5 cfm** (1.4 to 201 liter (sec) with a pressure drop across the ousing of the 5 PSIG (0.14 to 0.35 kg/cm²). Water new should be approximately **0.5 gallons** (liters, per minute; water temperature should be 20to 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.



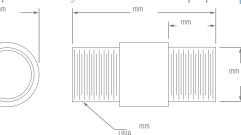
Note: The laser-equipped standard sensing head is 125 mm (4.92") long. The laser shuts off automatically at 120°F (50°C).

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 laserequipped standard sensing head is 125 mm (4.92") long.



Since 1972 Non-contact Temperature Measurement

Infrared Temperature Measurement — NCIT Plus Series Accessories



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.