

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

#### Measurement Specifications

<b>Temperature Range (All Sensor Heads):</b>	0 to 1000°F (-18 to 538°C)
<b>Spectral Response:</b>	Standard & Laser: 8 to 14 $\mu\text{m}$
<b>Optical Resolution:</b>	Laser: 50:1, close focus 45:1 Standard: 35:1, close focus 30:1
<b>System Accuracy:</b>	$\pm 1\%$ or $\pm 2^\circ\text{F}$ ( $\pm 1^\circ\text{C}$ ), whichever is greater
<b>System Repeatability:</b>	$\pm 0.5\%$ or $\pm 2^\circ\text{F}$ ( $\pm 1^\circ\text{C}$ ), whichever is greater
<b>Response Time – (95% of final reading):</b>	Standard & Laser: 500 ms
<b>Emissivity:</b>	Digitally adjustable, 0.1 to 1.09 by increments of 0.01 steps
<b>Signal Processing:</b>	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

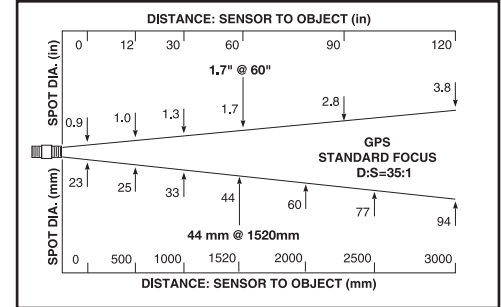
#### Electrical Specifications

<b>Power Supply:</b>	110 /220 VAC, $\pm 20\%$ , 50-60 Hz
<b>Inputs:</b>	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
<b>Outputs-Signal:</b>	4-digit, LED display, $^\circ\text{F}/^\circ\text{C}$ selectable. User configurable 4-20 mA current or thermocouple output (J, K, E, N, R, S, T)
<b>Alarm Output:</b>	Two adjustable setpoints with deadbands controlling +5 Vdc alarm outputs or optional 3A mechanical relays
<b>DC Supply Output:</b>	24 Vdc / 50 mA excitation voltage for powering external sensors

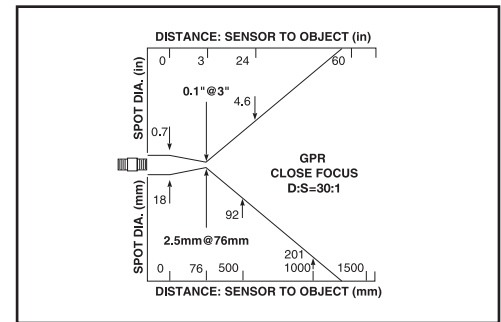
#### Sensor Specifications

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

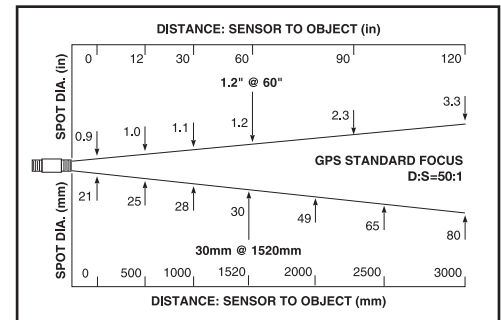
#### Distance to Spot Ratio—Standard



#### Distance to Spot Ratio—Standard Close Focus



#### Distance to Spot Ratio—Laser



#### Distance to Spot Ratio—Laser Close Focus

