

NON-CONTACT INFRARED THERMOMETERS



SIR10 / SIR50 / SIR100

FEATURES

- * Non-Contact Temperature Measurement
- * Gun Style Compact Design
- * Infrared with K-Type Thermocouple Input
- * Record, Data Hold, & °F or °C Selectable
- * Adjustable Emissivity
- * Optional Back Light Display
- * Laser Pointer
- * Accessories: Battery, Instruction Manual, Warranty Card, Soft Case, K-Type Probe



Parameters	SIR10B	SIR50B	SIR100B
Laser Sighting	Yes	Yes	Yes
Temperature Range	0° to 950°F (-18° to 510°C)	-58° to 950°F (-50° to 510°C)	0° to 1832°F (-18° to 1000°C)
Accuracy at 23°C, $\epsilon=0.95$	950°~1832°F(510°~1000°C): $\pm(2\%$ of reading ± 3 digits) 30°~950°F(-1°~510°C): $\pm 2\%$ of reading or $\pm 3.5^\circ\text{F}(2^\circ\text{C})$ whichever is greater 0°~30°F(-18°~ -1°C): $\pm 5^\circ\text{F}(3^\circ\text{C})$ -58°~0°F(-50°~ -18°C): $\pm 9^\circ\text{F}(5^\circ\text{C})$		
Repeatability at 5°C, $\epsilon=\pm 0.95$	$\pm 2\%$ of reading or $\pm 3.5^\circ\text{F}(2^\circ\text{C})$ whichever greater		
Response Time	500msec.		
Spectral Response	7 to 14 μm		
Display Hold	Last reading and operating mode display for 7 sec. Nominal upon trigger release		
Emissivity	0.3 to 0.99 adjustable		
Temperature Display	°F or °C (Selectable), 4 digit LCD		
Display Resolution	0.1°F(°C) or 1°F(°C)		
Ambient Operating Range	32° to 120°F (0° to 50°C)		
Relative Humidity	10% to 95% RH Non-Condensing		
Storage Temperature	-13° to 158°F (-25° to 70°C) without Battery		
Distance to Spot Ratio	8:1		
K-Type Range	-40° to 2192°F (-40° to 1200°C)		
K-Type Accuracy	$\pm 0.5\%$ of reading $\pm 3^\circ\text{F}(2^\circ\text{C})$		

Brighton Electronics, Inc.

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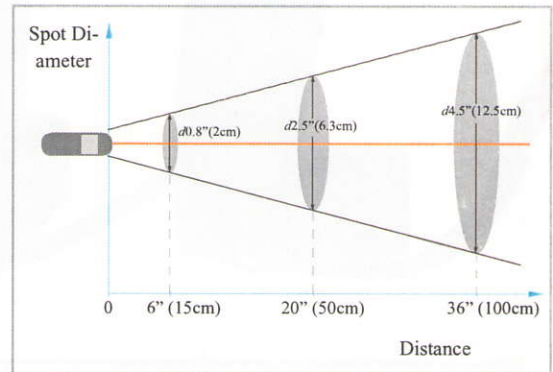
NON-CONTACT INFRARED THERMOMETERS



SIR800
SIR810
SIR802
SIR812
SIR805
SIR815

FEATURES:

- * Non-Contact Temperature Measurement
- * Data Hold Feature & °F/°C Selectable
- * 0.95 Fixed Emissivity
- * Optional Back Light Display
- * **Protective Boot** Included
- * 9V Battery and Soft Case Included
- * 3 Year Limited Warranty



Distance to Target Diameter ratio = 8:1

Parameters	SIR802	SIR812	SIR805	SIR815	SIR800	SIR810
Laser Sighting	No	Yes	No	Yes	No	Yes
Temperature Range	0°~500°F (-18°~260°C)		0°~950°F (-18°~510°C)		-58°~500°F (-50°~260°C)	
Accuracy, $\epsilon=0.95$	30°~950°F(-1°~510°C): $\pm 2\%$ of reading or $\pm 3.5^\circ\text{F}(2^\circ\text{C})$			30°~500°F: $\pm 2\%$ of reading or $\pm 3.5^\circ\text{F}(2^\circ\text{C})$		
	0°~30°F(-18°~ -1°C): $\pm 5^\circ\text{F}(3^\circ\text{C})$			0°~30°F(-18°~ -1°C): $\pm 5^\circ\text{F}(3^\circ\text{C})$		
				-58°~0°F(-50°~ -18°C): $\pm 9^\circ\text{F}(5^\circ\text{C})$		
Repeatability at 23°C, $\epsilon=\pm 0.95$	$\pm 2\%$ of reading $\pm 3.5^\circ\text{F}(2^\circ\text{C})$					
Response Time	500m sec.					
Spectral Response	7~14 μm					
Display Hold	Last reading and operating mode displayed for 4 sec. Nominal upon button release					
Emissivity (ϵ)	0.95					
Temperature Display	°F or °C (Selectable), 4 digit LCD					
Display Resolution	0.1°F(°C) or 1°F(°C)					
Ambient Operating Range	32°~120°F (0°~50°C)					
Relative Humidity	10%~95% RH Non-Condensing					
Storage Temperature	-13°~158°F (-25°~70°C) without Battery					
Distance to Spot Ratio	8:1					

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