Infrared Thermometers

Scan. Order. Done. Details on page A1.



Noncontact IR thermometers determine temperature using thermal radiation from the object(s) being tested.

Focus Spot Size and Distance—

Indicates the diameter measured at a given distance from the object. For example, 1" @ 12" indicates that a thermometer focuses on a 1"-dia. spot 12" from the thermometer.

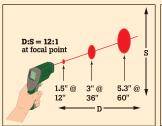
Emissivity—A surface's ability to give off infrared radiation relative to a black body, which theoretically emits at 100% or 1.0. Material and surface texture affect

Infrared Thermometer Terminology

emissivity. For example, a given polished metal may have an emissivity value of 0.20 and wood a value of 0.95. IR thermometer selection may consider whether a surface/ immersion probe is required for adjustments to emissivity.

1-Dot Laser Sighting—A laser pointer identifies the target area.

2-Dot/Convergence/Dual Laser **Sighting**—2 lasers converge to a single point; a 1"-dia. around that point is the measurement area.





Focus Spot Size and Distance

Convergence

WESTWARD **AMPROBE**





Pocket-Style Infrared Thermometers

General purpose thermometers show readings on LCDs. Pocket-size portability makes it easy to take and use thermometers anywhere.







34D332



49ZZ59

Focus Spot Size and Distance	Temp. Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Data Hold	Battery Type	Brand	Mfr. Model	Item No.
Infrared Thermometer										
1 in @ 1 in	-67° to 428°	+/-2.0% or +/-4.0° Whichever is Greater	0.95 fixed	Battery and Neck Lanyard	Single Dot	Not Applicable	CR2032	Westward	1VEP7	1VEP7
1 in @ 1 in	-28° to 230°	+/-2.5% of Reading or +/-4.5° Whichever is Greater	0.95 fixed	Battery and Wrist Strap	Single Dot	Yes	LR44	Westward	1VER1	1VER1
1 in @ 6 in	-20° to 932°	+/-2.0% of Reading or +/-4.0° Whichever is Greater	Adjustable 0.10 to 1.00	Battery and Wrist Strap	Single Dot	Yes	AAA	Westward	54TZ28	54TZ28
1 in @ 8 in	-20° to 932°	+/-4.0° at 70.0° Nominal	0.95 fixed	Probe, Users Manual	Single Dot	Yes	AAA	Amprobe	IR-450	34D332
1 in @ 10 in	-22° to 482°	+/-1.5% of Reading or +/-2.7°From 32.0 to 482.0°, +/-3.6°From -4.0° to 32.0°, +/-4.5°From -22.0° to -4°	Adjustable 0.10 to 1.00	Batteries, Certificate of Calibration, Wrist Strap	Circular	Yes	(3) AAA	Testo	0560 1805 01	49ZZ59
Accessory										
Nylon Thern	nometer Pouch	h, Use with 2ZB46, 1VEP6, and 1VEP9						Westward	1VEP3	1VEP3





NIST Certified Infrared Thermometers

Easy-to-read LCDs quickly provide temperature readings.







Focus Spot Size and	_Temp					B <u>a</u> ttery		Calibration	Mfr.	Item
Distance	Range (F)	Temp. Accuracy (F)	Emissivity	Includes	Laser Sighting	Type	Hold	Certificate	Model	No.
Extech										
1 in @ 12 in	-58° to 1200°	+/-1.0% of Reading +2.0°	Adjustable 0.10 to 1.00	Battery and Pouch Case	Single Dot	9V	Yes	NIST	42510A-NIST	2LZV2
1 in @ 12 in	-4° to 1202°	+/-1.0% of Reading +2.0°	Adjustable 0.10 to 1.00	Battery, Case	Single Dot	9V	Yes	_	IR270-NIST	55EP29
1 in @ 50 in	-58° to 1832°	±2.0% of Reading	Adjustable 0.10 to 1.00	Battery and Carrying Case	Single Dot	9V	Yes	NIST	42545-NIST	2LZV6
1 in @ 50 in	-58° to 3992°	±1.0% of Reading	Adjustable 0.10 to 1.00	Battery and Instructions, Carrying Case, Tripod, Type K Temperature Probe, USB Cable and Software	Convergence	9V	Yes	NIST	42570-NISTL	4TXH7
1 in a 30 in	-58° to 1832°	+/-4.5°	Adjustable 0.10 to 1.00	Battery, Instructions, Pouch Case	Convergence	9V	Yes	NIST	42512-NIST	6RGK8
FLIR										
1 in @ 24 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Batteries, Quick Start Guide, User Manual/CD, Wrist Strap Lanyard	Single Dot	AAA	Yes	NIST	TG54-NIST	49VU04
1 in @ 30 in	-22° to 1202°	±1.0% of Reading	(4) Presets 0.65, 0.75, 0.85, 0.95 and Adjustable From 0.10 to 0.99	Batteries, Quick Start Guide, Type K General Purpose Probe, User Manual/CD, Wrist Strap Lanyard	Single Dot	AAA	Yes	NIST	TG56-NIST	49VU05
Milwaukee										
1 in @ 10 in	-22° to 752°	±2.0%	0.95 fixed	(1) 9V Battery, Manual, NIST Certification	Single Dot	9V	Yes	Yes	2267-20NST	45PF90
1 in @ 12 in	-22° to 1022°	±1.8%	0.95 fixed	(1) 9V Battery, Manual, NIST Certification	Single Dot	9V	Yes	Yes	2268-20NST	45PF92
1 in @ 12 in	-22° to 1022°	±1.8%	0.95 fixed	Manual and NIST Certification	Single Dot	M12	Yes	Yes	2278-20NST	45PF96
1 in @ 30 in	-40° to 1472°	±2.0%	Adjustable 0.10 to 0.99	(1) 9V Battery, K-Type Thermocouple, Manual, NIST Certification	Single Dot	9V	Yes	Yes	2269-20NST	45PF94
UEI Test Instru	ıments									
1 in @ 12 in	-76° to 1022°	+/-2.0% or +/-4.0° Whichever is Greater	Adjustable 0.30, 0.70, 0.95	(2) AAA Batteries, Holster	Circular	AAA	Yes	NIST	INF195C-N	49EL82