

IR-700 Series Infrared Thermometers

IR-708, IR-710, IR-712, IR-720, IR-730 and IR-750

The Amprobe IR-700 series of infrared thermometers is a complete line of high performance diagnostic tools designed for HVAC/R, electrical, industrial maintenance, automotive as well as quality control and fire prevention applications. From simple spot checking to advanced data recording, the IR-700 series offers the right tool for the job.

Additional Features

- · Extremely accurate and reliable
- **Precise measurement** with distance to spot ratio from 8:1 to 50:1
- Wide temperature ranges available up to -58°F to 2822°F (-50°C to 1550°C)
- Rapid response time
- · Laser pointer for accurate targeting
- 8 seconds auto display hold for easy read-out
- Adjustable emissivity for measuring a variety of materials (IR-712, IR-720, IR-730, IR-750)
- · Selectable °F and °C
- Stores up to 99 data points (IR-750 only)
- Thermocouple input (IR-750 only)
- USB interface (IR-750 only)



IR-750 Infrared Thermometer

Safety Certification

CE &

All Amprobe tools, including the Amprobe IR-700 Series, are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.



IR-700 Series Key Applications



Safely and easily verify temperature of major appliances, indoors and outdoors. Check the temperature of stoves, ovens and grills with a simple pull of the trigger.



The bright LCD display and red laser pointer make it easy to verify the temperature of fuses, insulation, light bulb housings, and more, even in dimly lit areas.



For precision measurements requiring the highest accuracy, emissivity can be adjusted for a wide range of material types (IR-712, IR-720, IR-730 and IR-750).



The advanced IR-750 records up to 99 data points for minimum, maximum, average, and hold, and has a USB port to export data for extensive analysis.

Fast and Accurate from a Distance The IR-700 series measures temperature up to four times a second (250ms) allowing the units to precisely pinpoint hot and cold spots. With a distance to spot ratio of up to 50:1, the series is designed to measure temperature quickly and accurately without having to touch an object.

Easy to Read Display The bright, high-contrast backlit LCD screen has an eight-second hold for reading temperature, and a low battery indicator to help prevent false readings. All models display maximum and minimum temperature, while advanced models also offer average and difference measurements (IR-712, IR-720, IR-730, IR-750).

Adjustable Emissivity for Precision Measurements The IR-700 series determines temperature by measuring emitted, reflected and transmitted energy. For enhanced accuracy, the emissivity can be adjusted to fit specific material types. Emissivity is digitally adjustable from 0.10 to 1.00 on the IR-712, IR-720, IR-730 and IR-750.

IR-700 Series Selection Guide	IR-708	IR-710	IR-712	IR-720	IR-730	IR-750		
Features						THE TOTAL PROPERTY OF THE PARTY		
Distance to Spot (D:S)	8:1	10:1	12:1	20:1	30:1	50:1		
Temperature Range	0°F to 716°F -18°C to 380°C	0°F to 716°F -18°C to 380°C	0°F to 1022°F -18°C to 550°C	-26°F to 1922°F -32°C to 1050°C	-26°F to 2282°F -32°C to1250°C	-58°F to 2822°F -50°C to1550°C		
Best Accuracy	±2	%	±1.8%					
Emissivity for measuring a variety of materials	0.	95	Adjustable from 0.10 to 1.00					
Display Resolution					0.1°C / 0.1°F of reading < 999.9			
MIN/MAX Memory	•	•	•	•	•	•		
DIF/AVG Temperature Display			•	•	•	•		
Tripod mount			•	•	•	•		
Programmable high and low alarm						•		
USB interface						•		
Built in memory						99		
K-Type thermocouple measurement						•		
Warranty	1 year							



IR-700 Series

Detailed Specifications

Specifications	IR-708	IR-710	IR-712	IR-720	IR-730	IR-750			
Temperature Range	0°F to 716°F -18°C to 380°C	0°F to 716°F -18°C to 380°C	0°F to 1022°F -18°C to 550°C	-26°F to 1922°F -32°C to 1050°C	-26°F to 2282°F -32°C to 1250°C	-58°F to 2822°F -50°C to 1550°C			
Accuracy with Ambient Operating Temperature of 70°F to 77°F (21°C to 25°C) (For IR-708, 710, 712, 720 and 730 only.) 73°F to 77°F (23°C to 25°C) (IR-750 only)	-0.4°F to 50°F (-18°C to 10°C): ±2%+2°F (1°C), or ±6°F (±3°C), whichever is greater (Typical)		±1.8% or ±4°F (±1.8°C), whichever is greater (Typical)	>32°F to 2282°F (>0°C to 1250°C): ±1.8% or ±4°F (±1.8°C), whichever is greater (Typical) -26°F to 32°F (-32°C to 0°C): ±1.8%+2°F (1°C) or ±6°F (±2.8°C), whichever is greater (Typical)		>32°F to 2822°F (>0°C to 1550°C): ±1.8% or ±4°F (±1.8°C), whichever is greater (Typical) >-31°F to 32°F (-35°C to 0°C): ±1.8%+2°F (1°C) or ±6°F (±2.8°C), whichever is greater (Typical) -58°F to -31°F (-50°C to -35°C): not specified (for reference only)			
Repeatability	±0.5% of reading or ±1°F (±0.5°C), whichever is greater								
Display Resolution			0.1°F / 0.1°C of reading < 999.9 0.2°F / 0.2°C of reading below 10°C (50°F) 1°F / 1°C of reading > 999.9						
Spectral Response		8μm to14μm							
Laser Sighting	Single point laser								
Laser Power	Output > 1mW Class 2, wavelength 630 to 670nm								
Response Time (95%)	500ms	500ms 500ms 250ms							
Distance to Spot (D:S)	8:1	10:1	12:1	20:1	30:1	50:1			
Minimum Spot Size	20mm	20mm	25r	mm	24mm	19mm			
Emissivity	0.95 Digitally adjustable from 0.10 to 1.00 by 0.01. Pre-set emissivity is 0.95								
Ambient Operating Temperature	32°F to 104°F 0°C to 40°C								
Relative Humidity	0% to 75% non-condensing								
Storage Temperature	-4°F to 150°F / -20°C to 65°C								
Temperature Display	°F / °C selectable								
Display Hold	8 seconds								
MAX/MIN Temperature Display	•	•	•	•	•	•			
DIF/AVG Temperature Display	-	-	•	•	•	•			
Dual LCD Display	•	•	•	•	•	•			
LCD Backlit	•	•	•	•	•	•			
Low Battery Indication	•	•	•	•	•	•			
Tripod mount	-	_	•	•	•	•			
Power		9V 6F22 alkaline battery or by power adaptor (output DC 6V/450mA)							
Battery Life	10 hours with laser and backlight on 30 hours with laser and backlight off								
Dimension (H x L x W)		x 4.5 x 1.6 in 3 x 40 mm)		Approx.6.7 x 5.4 x 2.1 in (169 x 138 x 53 mm)	Approx.7.2 x 5.8 x 2.3 in (183 x 147 x 57 mm)				
Weight		1 lb (180 g) ry installed		Approx.0.64 lb (290 g) with battery installed	Approx.0.76 lb (345 g) with battery installed				
Included Accessories	Battery and Ins	truction Manual	Carrying I	Bag, Battery and Instructio (Battery not installed)	Software CD, USB Cable, K-type Thermocouple Probe, Carrying Bag, Hard Carrying Case, Battery and Instruction Manual				
Optional Recommended Accessories (IR-750 only)			-			Power adaptor EPS-700-US (US plug), EPS-700-EUR (European plug)			