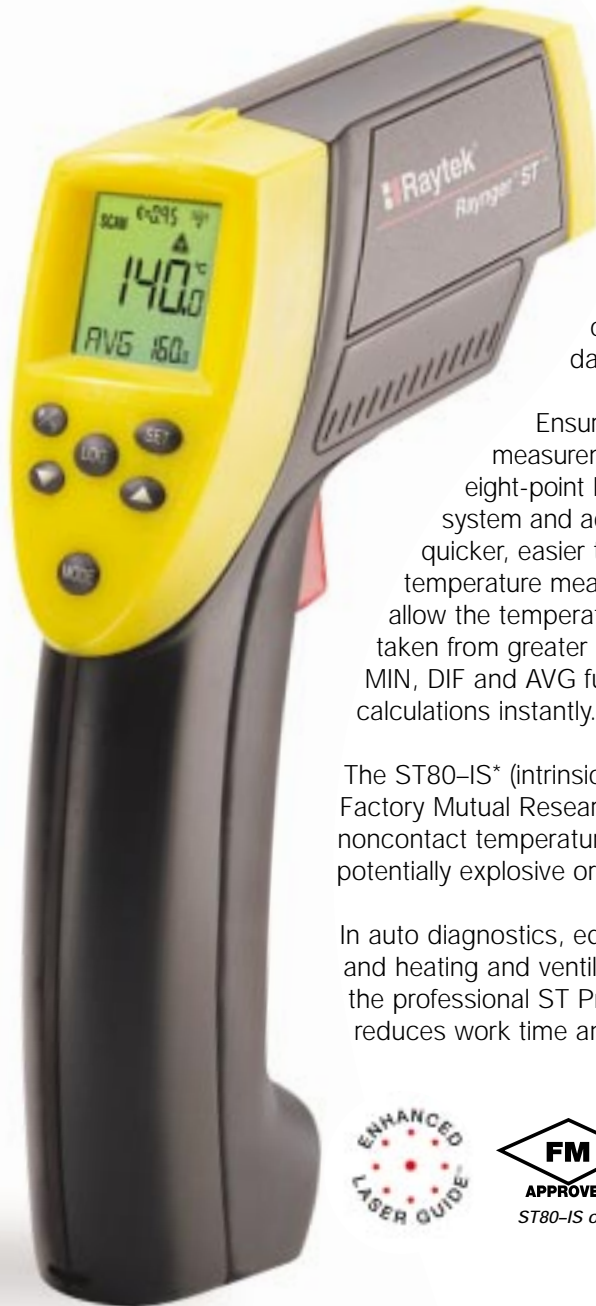


ST™ ProPlus

Portable Infrared Thermometer

Noncontact Temperature Measurement



ST ProPlus Thermometer— The Professional's Advantage

Professionals use the Raytek ST infrared (IR) thermometer to locate and diagnose potential problems by measuring surface temperature. ST ProPlus thermometers measure higher temperatures, smaller objects, and feature a variety of conveniences such as alarms, adjustable emissivity, and data logging capabilities.

Ensure precise temperature measurements with the enhanced eight-point Laser Guide™ sighting system and adjustable emissivity permitting quicker, easier targeting, and more accurate temperature measurements. Advanced optics allow the temperature of smaller objects to be taken from greater distances. Selectable MAX, MIN, DIF and AVG functions perform calculations instantly.

The ST80-IS* (intrinsically safe approved by Factory Mutual Research) model is available for noncontact temperature monitoring needs in potentially explosive or flammable environments.

In auto diagnostics, equipment maintenance and heating and ventilation troubleshooting, the professional ST ProPlus thermometer reduces work time and improves performance.

- Simple to use
- 1% accuracy
- Adjustable emissivity
- Laser Guide™ sighting
- 12-point data logging
- Hi/Lo Alarm
- MAX, MIN, DIF and AVG temperature display
- Large, easy to read display with 7-second hold
- Intrinsically Safe model available (ST80-IS)*

* Rated by Factory Mutual Research for use in hazardous locations

The ST80-IS approval does not apply to atmospheres containing coal dust, grain dust, metal dust, or fibers.

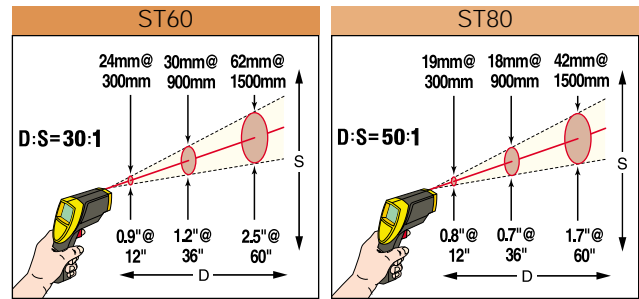


Raytek®

Specifications	ST60	ST80/ST80-IS*
Temperature Range	-32 to 600°C (-25 to 1100°F)	-32 to 760°C (-25 to 1400°F)
Accuracy (Assumes ambient operating temperature of 23°C [73°F])	For targets at -32 to -26°C (-25 to -15°F): ±3°C (±5°F) For targets at -26 to -18°C (-15 to 0°F): ±2.5°C (±4°F) For targets at -18 to 23°C (0 to 73°F): ±2°C (±3°F) For targets above 23°C (73°F): ±1% of reading or ±1°C (±2°F), whichever is greater	
Repeatability	±0.5% or ≤ ±1°C (±2°F), whichever is greater	
Response Time	≤ 0.5 second (95% of reading)	
Spectral Response	8-14μm	
Emissivity**	Digitally Adjustable Emissivity (from 0.1 to 1.0 by 0.01)	
Ambient Operating Temp.	0 to 50°C (32 to 120°F)	
Relative Humidity	10-90% RH noncondensing, at <30°C (86°F) ambient	
Storage Temperature	-20 to 60°C (-13 to 158°F) without battery	
Weight/Dimensions	320g (11oz) 200 x 160 x 55mm (8 x 6 x 2 in)	
Power	9V Alkaline or NiCd Battery	
Battery Life (Alkaline)	20 hrs w/laser & backlight on 50% 40 hours w/laser & backlight off	
Laser Sighting (Class II)	Offset 8-point circular Laser Guide	
Typical Distance to Target	5m (15 ft)	8m (25 ft)
Distance to Spot (D:S)	30:1 at focus point	50:1 at focus point
MIN,MAX AVG, DIF Temp. Display	✓	
Data Logging	12 points	
Probe Jack	✓	
Display Hold (7 seconds)	✓	
Hi/Low Alarm	✓	
LCD Backlit	✓	
Temperature Display	°C or °F selectable	
Display Resolution	0.1°C (0.1°F)	
Hard Carrying Case	✓	
Locking Trigger	✓	
Tripod Mounting	6.35mm (1/4 in) 20 UNC threading	

* Approved by Factory Mutual Research for use in hazardous locations

Optical Resolution

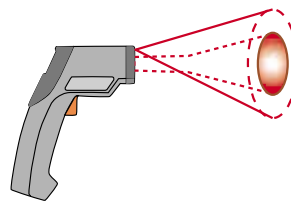


The ST60 is ideally used within 5m (15 feet) of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by 30).

The ST80/ST80-IS models are ideally used within 8m (25 feet) of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by 50).

Laser Sighting

STProPlus thermometers features have offset 8-point circular Laser Guides™ that highlight the approximate measurement area.



Options/Accessories

RTD Temp. Probe (standard w/ST80-IS)
-32 to 260°C (-25 to 500°F)

Nylon Holster

NIST/DKD Calibration Certificate

Factory Mutual Research Intrinsically Safe Rated ST80-IS, including probe (Intrinsically Safe, Class I Division 1 Groups A,B,C,D Class I, Zone 0, AEx ia IIC, T4 at 50°C when used with 9V alkaline battery)

Raytek®



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Specifications subject to change without notice.