

ST XB ProPlus

Portable Infrared Thermometers



Noncontact Temperature Measurement



ST XB ProPlus Thermometers— The Professional's Advantage

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

Advanced optics allow the temperature of smaller objects to be taken from greater distances to ensure precise temperature measurements. The laser sighting helps to indicate the target area. Selectable MAX, MIN, DIF and AVG functions perform calculations instantly.

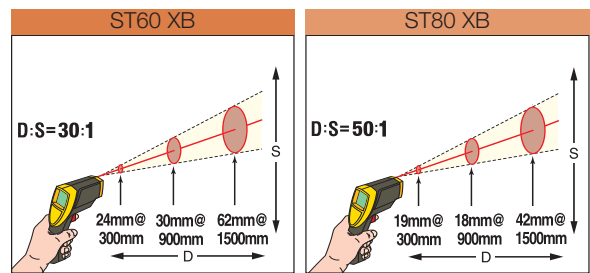
In equipment maintenance and heating and ventilation troubleshooting, the professional ST XB ProPlus thermometers reduce work time and improve performance.

- Simple to use
- 1% accuracy
- Adjustable emissivity
- Laser Point sighting
- 12-point data logging
- Hi/Lo Alarm
- MAX, MIN, DIF and AVG temperature display
- Large, easy to read display with 7-second hold

Specifications	ST60 XB	ST80 XB
Temperature Range	-32 to 600°C	-32 to 760°C
Accuracy (assumes ambient operating temperature of 23°C ±5K)	For targets at -32 to -26°C: ±3°C For targets at -26 to -18°C: ±2.5°C For targets at -18 to 23°C : ±2°C For targets above 23°C: ±1% of reading or ±1°C, whichever is greater	
Repeatability	±0.5% or ≤ ±1°C, whichever is greater	
Response Time	≤ 0.5 second (95% of reading)	
Spectral Response	8-14 μm	
Emissivity	Digitally adjustable emissivity (from 0.1 to 1.0 by 0.01)	
Ambient Operating Temp.	0 to 50°C	
Relative Humidity	10-90% RH noncondensing, at <30°C ambient	
Storage Temperature	-20 to 60°C without battery	
Weight/Dimensions	320 g 200 x 160 x 55 mm	
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 single-point laser	
Typical Distance to Target	5 m	8 m
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	
Hard Carrying Case	✓	
Locking Trigger	✓	
Tripod Mounting	1/4 in 20 UNC threading	

* Approved by Factory Mutual Research for use in hazardous locations

Optical Resolution

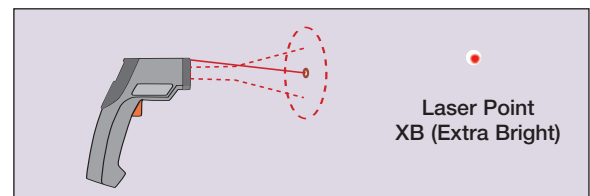


The ST60 XB is ideally used within 5 m of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by 30).

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

Laser Sighting

The ST XB ProPlus offset single-point Laser Point indicates the approximate center of the measurement area. The laser is bright enough to indicate the target from optimal distances.



Options/Accessories

- RTD Temp. Probe -32 to 260°C
- Nylon Holster
- NIST/DKD Calibration Certificate

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