

## FEATURES

- Rapid detection function
- Dual laser sighting
- Automatic data hold
- Negative display screen
- Unique flat surface
- Precise non-contact measurements

# RS PRO Infrared Thermometer, Max Temperature +380 °C, +716 °F, $\pm 1$ %, Centigrade, Fahrenheit

RS Stock No.: 136-7890



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

RS PRO RS820 is an easy-to-use IR thermometer (sometimes called laser thermometers or non-contact thermometers) for reading thermal radiation emitted from any given object where a probe is not appropriate. This allows precise temperature measurements, provides rapid detection with a dual laser and features a 12:1 spot ratio. An illuminated negative digital display provides clear readings. When reading surface temperature the non-contact thermometer has a large temperature range of -50 to 380°C with an accuracy  $\pm 1\%$  of the reading.

## General Specifications

<b>Model Number</b>	RS-820
<b>Temperature Range</b>	-50°C to 380°C (-58°F to 716°F)
<b>Best Accuracy</b>	$\pm 1.0^\circ\text{C}$ or $\pm 1\%$ of reading
	$\pm 2.5^\circ\text{C}(4.5^\circ\text{F})$ @ 50°C to 20°C (-58°F to 68°F)
	$\pm 1.0\% \pm 1^\circ\text{C}(1.8^\circ\text{F})$ @ 20°C to 380°C (68°F to 716°F)
<b>Display Type</b>	LCD backlit
<b>Distance to Spot Ratio</b>	12:1
<b>Response Time</b>	150ms
<b>Spectral response</b>	8 to 14um
<b>Emissivity</b>	Fixed to 0.95
<b>Display resolution</b>	0.1°C (0.1°F)
<b>Repeatability (% of reading)</b>	$\pm 1^\circ\text{C}(1.8^\circ\text{F})$
<b>Temperature Scale</b>	Centigrade / Fahrenheit
<b>Low Battery Indication</b>	Yes
<b>Over range indication</b>	Yes
<b>Auto Power Off</b>	Yes
<b>Applications</b>	Food preparation / Safety and Fire inspections / Plastic moulding
<b>Calibration Availability</b>	Yes

## Electrical Specifications

<b>Battery Included</b>	Yes
<b>Battery Type</b>	9V

## Mechanical Specifications

<b>Dimensions</b>	131mm x 96mm x 35mm
<b>Length</b>	35mm
<b>Width</b>	96mm
<b>Height</b>	131mm
<b>Weight</b>	220g

## Environmental Specifications

<b>Operating temperature</b>	0°C to 50°C
<b>Storage temperature</b>	-10°C to 60°C
<b>Operating humidity</b>	10% to 90% R.H.

## Approvals

<b>Compliance/Certifications</b>	EN61340
<b>Declarations</b>	RoHS Certificate of Compliance



