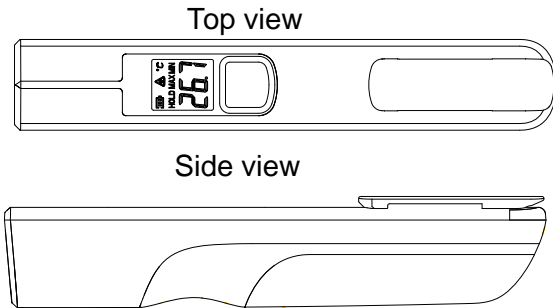


OS-PEN9 Infrared Thermometer

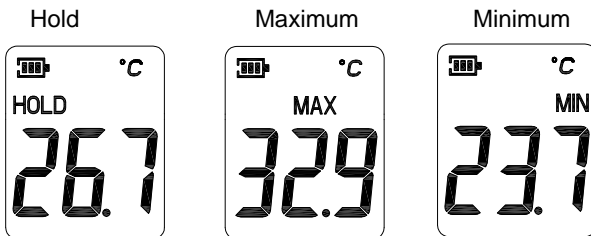
Operating Instructions

Congratulations on your selection of the OS-PEN9 thermometer. The OS-PEN9 thermometer is a non-contact infrared thermometer with circular laser.



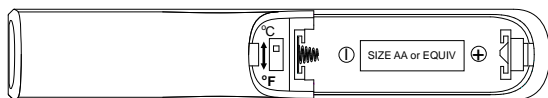
Operation:

1. Press 'Meas.' Button, directly to power OS-PEN9 on and start measurement.
2. Release finger to hold the last reading and see the last Maximum and Minimum readings every 2 seconds in turn.



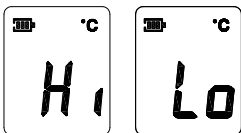
°C / °F Measurement Unit Conversion

Take off battery cover and use a pen to shift the scale switch



LCD Error Messages:

OS-PEN9 incorporates visual diagnostic messages as follows:



'Hi' or 'Lo' is displayed when the temperature being measured is outside of the range of the instrument. 'Hi' when higher than +500°C (932°F) and 'Lo' when lower than -33°C (-27°F).



'Er1' is displayed when the ambient temperature of the OS-PEN9 exceeds -10 °C (14°F) or +50 °C (122°F). In both cases you should allow plenty of time (minimum 30 minutes) for the OS-PEN9 to stabilize to the working/room temperature 0 to +40 °C (32 to 104 °F).



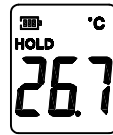
'Er2' is displayed when the OS-PEN9 is exposed to rapid changes in the ambient temperature.



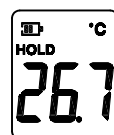
For all other error messages it is necessary to reset the OS-PEN9. To reset the OS-PEN9, turn the instrument off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on the unit.

Battery:

The OS-PEN9 incorporates visual low battery indication as follows:



'Battery OK': measurements are possible.



'Battery Low': battery needs to be replaced, measurements are possible.



'Battery is depleted': measurements are not possible.

Battery Replacement:

When the 'Low Battery' icon indicates the battery is low, the battery should be replaced immediately with a AA battery. The battery is located under the battery cover at the rear of the OS-PEN9.

. Slide the battery cover off.

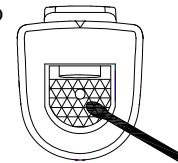
. Remove the old battery and replace with a new AA battery.



Storage & Cleaning:

Always keep the reflecting mirrors and lens clean.

If mirrors and lens appear dirty, use a damp cotton swab to wipe clean. Make sure lens on the OS-PEN9 is completely dry before using. The OS-PEN9 is not waterproof – do NOT submerge in water.



Warning:

- . The Temp function is not intended for taking measurements that require a Life & Death decision or Safety related applications.
- . The temperature reading of OS-PEN9 indicates only the surface temperature, and not the actual temperature of an object.
- . Keep the unit dry and away from any liquids and direct sunlight or a very hot object. (to prevent heat damage to unit, do not leave in the sun or next to very hot objects).
- . Always make sure the probe lens is clean without any damage.
- . Dispose of used battery promptly and keep away from children.

Specification:

Range	-33 to +500°C (-27 to +932°F)
Resolution	-9.9 to 99.9°C /°F: 0.1°C /°F Above 200 °C or below -10 °C /°F : 1°C /°F
Response Time	1 second
Infrared Accuracy	± 2.0% of reading or ± 2.0 °C which one is greater
Field of View (D:S)	9:1 optics ratio
Emissivity	0.95 fixed
Battery Life	30 hours continuous use
Operation temp. and humidity	0 to 50°C; < 90RH%
Storage temp. and humidity	10 to 40 °C ; < 65 RH%
Battery	AA
Display	LCD
Dimensions	150(L) x 25(W) x 27(H) mm
Weight	74grams including battery

Guarantee:

The OS-PEN9 is guaranteed for a period of one year from the date of purchase against mechanical and electrical manufacturing defects. There are no user serviceable parts inside the instrument. Any attempt to repair unit by an unauthorized person voids the warranty.



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Made in China