

## Non-Contact **Infrared Thermometer** With Relative Humidity and 12:1 Field of View

**OS418-LS** 



- ✓ Infrared Range -60 to 500°C (-76 to 932°F)
- Select Operating Modes and Adjust **Parameters Easily**
- Built-in Type K Thermocouple Connection
- ✓ Type K Included for **Contact Measurement** and to Confirm Emissivitv
- Built-in Relative **Humidity Measurement** for Environmental Monitoring
- High or Low Icon Has a **Beep Sound with Laser** Flashes and Vibration

## **Applications**

- Building Maintenance
- ✓ Laboratory
- Automation
- Industrial
- Pharmaceutical

OS418-LS shown smaller than actual size.

> Or use the thermocouple for high precision measurement of contact surfaces, gases and liquids.

> The OS418-LS can also help measure emissivity, which is often difficult for a user to determine. Use the Type K thermocouple contact to measure the true temperature. Then, use the noncontact infrared to get the surface temperature. Adjust the emissivity until they are the same, with the option to use the same emissivity setting for that object next time. No more guess work, no more looking up on Emissivity Table.

This unit also comes with an ultra-long battery life (2 AAA batteries are included).

CAUTION! – This product is not intended for medical use on human SER RADIATION - DO NOT MAX. Output<1mW. Wavelength: 635-660nm Complies with 21 CFR, Chapter 1, Subchapter

readings, safely and reliably.

OMEGA's OS418-LS is the

ultimate tool for temperature

sensors:

thermopile

measurement. Accurately verify

of the most reliable temperature

Non-contact micro-machined

Type K thermocouple socket

Such an arrangement can fulfill

most temperature measurement requirements. The non-contact

infrared measurement is ideal for non-reachable situations, due to safety or sanitary reasons-instant

(free T/C included)

surface temperatures with two

## **DE OMEGA**



OS418-LS shown smaller than actual size.

To Order	
Model No. Description	
OS418-LS Non-contact infrare humidity, 12:1, Type	d thermometer with relative K

Comes complete with CD, 1 Type K thermocouple, 2 "AAA" batteries and operator's manual. **Ordering Example: OS418-LS**, non-contact infrared thermometer with relative humidity, 12:1, Type K



## Specifications

Item	Non-Contact Infrared Scan Function	Thermocouple Scan Function (Type K, bead wire included)	
Measurement Range	-60 to 500°C (-76 to 932°F)	-64 to 1400°C (-83.2 to 2552°F)	
Operating Range	0 to 50°C (32 to 122°F)		
Accuracy (Tobj = 15-35°C, T amb = 25°C)	±1.0°C (1.8°F)	$\pm$ 1% of reading or 1°C (1.8°F) whichever is greater (Test under Accuracy T amb = 23 $\pm$ 6°C)	
Accuracy T amb=23±6°C) (Tobj = -33-500°C, T amb=23±3°C)	T obj = 0 to 500°C: $\pm 2\%$ of reading or 2°C (4°F) whichever is greater; T obj = -60 to 0°C: $\pm (2°C+0.05/degree)°C$		
Emissivity Range	0.95 default – adjustable 0.1 to 1 step .01		
Resolution (-9.9 to 199.9°C/°F)	0.1°C/0.1°F, otherwise 1°C/1°F		
Response Time (90%)	1 second		
Distance: Spot	12:1 (90% energy covered)		
Relative Humidity (T amb=23 ±5°C)	1 to 99%, accuracy: $\pm 3\%$ from 20 to 80%, otherwise $\pm 5\%$		
Dew Point	-50 to 50°C, accuracy: ±2.5°C from 20 to 30% RH; ±2°C from 31 to 40% RH; ±1.5°C from 41 to 95% RH		
Dry and Wet Bulb Temperature Range	-20 to 65°C (-4 to 149°F), accuracy: ±2.5°C		
Battery Life	Between 140 and 180 hours continuous use (Alkaline, without laser and backlight)		
Dimensions	46.0 x 143.0 x 184.8 mm (1.81 × 5.63 × 7.28 inch)		
Weight	240 grams (8.5 oz) including batteries (2 "AAA" batteries included)		
Note: Under the electromagnetic field of 3V/m from 200 to 600 MHz, the maximum error is 10°C (18°F).			