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OSXL207

Infrared Thermometer



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If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:

- Purchase Order number under which the product was PURCHASED,
- 2. Model and serial number of the product under warranty, and
- Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

- Purchase Order number to cover the COST of the repair or calibration,
- Model and serial number of the product, and
- Repair instructions and/or specific problems relative to the product.

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OSXL207 Infrared Thermometer

1. Introduction

Congratulations on your purchase of the new OSXL207 InfraRed Thermometer (IRT). This IRT is an 8:1 non-contact temperature measuring instrument using infrared technology and laser sighting. Features include a 4 digit backlit LCD, scan/hold function and auto power off (7 secs). To measure a temperature, point the unit at the object, pull the measuring trigger and hold. Make sure the target area is larger than the unit's spot size.

2. Safety Information \triangle

Read the following safety information carefully before attempting to operate or service the IRT. Only qualified personnel should perform repairs or servicing not covered in these instructions.

2-1 Cautions!

- DO NOT submerge the unit in water.
- This product is not designed for use in medical evaluations. The product can only be used to measure body temperature simply for reference.
 The IRT is meant for industrial and commercial uses.

LASER WARNING NOTE!



Do not point laser directly at eye. Use caution around reflective surfaces. Keep out of reach of children.

2-2 Safety symbols



Dangerous, refer to this manual before using the meter.

C ∈ CE Certification.

This instrument conforms to the following standards:

EN61326: Electrical equipment for measurement, control and laboratory use.

IEC61000-4-2: Electrostatic discharge immunity test.

IEC61000-4-3: Radiated, radio-frequency, electromagnetic field immunity test.

IEC61000-4-8: Power frequency magnetic field immunity test.

Tests were conducted using a frequency range of 80-1000MHz with the instrument in three orientations. The average error for the three orientations is $\pm 1.0^{\circ}$ F ($\pm 0.5^{\circ}$ C) at 3V/m throughout the spectrum. However, between 781-1000MHz at 3V/m, the instrument may not meet its stated accuracy.

3. Specifications

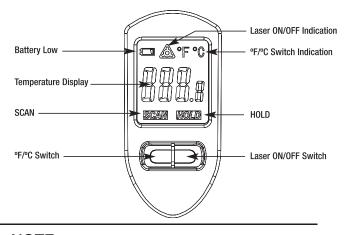
Temperature Range	-4° to 605°F (-20° to 320°C)
Accuracy	±2% of reading or ±2°C
	whichever is greater
Field of View	8:1
Thermopile	5~14 μm
Repeatability	±1°C (±2°F)
Response Time	500 ms.
Operation Temp.	32° to 122°F (0° to 50°C), 10~90% RH
Auto Power Off	Automatically after 7 sec.
Emissivity	Fixed at 0.95
Storage Temp.	14° to 140°F (-10° to 60°C)
°F/°C Switchable	YES
Backlight	YES
Laser Sight Switchable	YES
Battery Type	"9V" battery (included)
Battery Life	16 hrs
Dimension	6" x 4.6" x 1.3" (152 x 118 x 32 mm)
Weight	6 oz. (170g) Approx.
Accessory	"9V" battery, Instruction manual

4. Operation of Instrument

4-1 Quick Start

To measure a temperature, point the unit at the target you want to measure, pull the trigger and hold. Be sure to consider the target area inside the angle of vision of this instrument ie a 1" measuring spot at a distance of 8". The single spot of laser is used for aiming purposes only. The unit is powered by "9V" battery and displays temperatures in either °F or °C.

Replace the battery when the battery voltage drops below the voltage for reliable operation and the low battery symbol \Box appears.



5. Maintenance

Cleaning the lens: Blow off loose particles using clean compressed air. Gently brush remaining debris away with a camel's hair brush. Carefully wipe the surface with a moist cotton swab. The swab may be moistened with water.

NOTE:

DO NOT use solvents to clean the glass lens.

Cleaning the housing:

Use soap and water on a damp sponge or soft cloth.

OSXL207 手持式红外测温枪

1. 概述

祝贺您购买了0SXL207手持式红外测温枪。此款红外测温枪使用了光学比为8:1的非接触式红外测温和激光点指示技术。具有4位数字背光LCD显示屏,测量/保持读数和7秒无操作自动关机功能。当测量温度时,把仪器对准被测物体,扣住扳机获得温度读数。测量时确保被测物面积大于仪器的实际测量面积。

2. 安全信息

操作或维修机器前请仔细阅读以下安全信息。 唯有认证许可的专业人员可以实施说明书中未提到的维修检护措施。

2-1 注意

- 不要将仪器浸入水中
- 此仪器不能用于医疗评估。使用本仪器测量得到的体温值仅限于参考。此仪器适用于工业和商业用途。

激光警告!

不要将激光直接对准人眼。 当附近有反射表面时应注意。 放置在儿童无法取到的地方。

2-2 安全警示符

★ 危险,使用前参考本说明书。

(€ CE认证

本仪器符合以下标准:

EN61326: 测量,控制,实验室用电子设备

IEC61000-4-2: 抗静电放电测试

IEC61000-4-3: 抗辐射,无线电,电磁场测试

IEC61000-4-8: 抗电流频率磁场测试

测试使用80-1000MHz频率从仪器的三个方向就行。在3V/m整个波普三个方向的平均误差为 $\pm 1.0^{\circ}$ ($\pm 0.5^{\circ}$ C)。但是在3V/m,781-1000MHz时,仪器可能达不到额定精确度。

5. 保养维护

清洁镜头: 使用清洁的压缩空气吹去镜头前的灰尘附着物。使用驼毛刷小心的擦去残留物。使用水润的棉布小心擦拭表面。

3. 技术参数

温度测量范围-20°至320°C (-4°至605°F) 温度测量精确度 ...±2°C (4°F) 或读数的±2%,两者

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响应波长 5~14 μm 重复性±1°C (±2°F) 响应时间500mS

工作温度0°至50°C (32°至122°F), 10~90% RH

存放环境 . . -10°至60℃ (14°至140℉)

仪器尺寸150 x 97 x 33mm (6" x 3,8" x 1,3")

4. 仪器操作

4-1快速上手指南

开始测量温度时,将仪器对准待测物体后,扣住扳机。测量前请确保被测物表面在仪器的测量视野内,如仪器距离物体8英寸时,测量视野为直径1英寸的圆形面。激光点仅用于指示测量目标。仪器使用9V电池供电,温度读数单位华氏摄氏均可显示。

为保证准确可靠的测量,当低电图表显示时,请及时更换电池。

注意:

清洁玻璃镜片时不要使用溶解性的溶剂。

清洁外壳:

清洁外壳时使用沾有肥皂水的海面或者软布。