Value VIT300

Introduction

Non-contact Infrared Thermometer The Model VIT300 Infrared Thermometer (hereafter,

eter with low consumption design so that they can be measurement. Intelligent design can make measurechanging battery and low battery issues during used for a longer time, which can solve the frequently energy radiated by the target's surface. temperature by measuring the amount of infrared the "Thermometer") can determine the surface The Thermometers are non-contact infrared thermom

Operating Manual



Caution

under test protect them from the following:

To avoid damaging the thermometer or the equipment

ment easier and quicker.

EMF (electro-magnetic fields) from arc welders,

 Thermal shock (caused by large or abrupt ambient Static electricity. induction heaters, etc.

A warning identifies conditions and actions that pose Features

high temperature.

Thermometer to stabilize before use) temperature changes – all 30 minutes from the

Safety Information

 White colour Backlit Display Single-spot Laser Sighting

The Thermometer includes:

personal injury, follow these guidelines: hazards to the user. To avoid electrical shock or

 Low Battery Display Battery power monitoring

HOLD	Laser "On" Symbol SCAN or HOLD
SCAN SCAN	Temperature values for the MAX and MIN
	Battery indication
• \(\frac{1}{2}\)	Display backlit
°C/°F	°C/°F Symbol (Celsius/Fah

_		
	used for aiming purposes only.	reading which appears on the display.
		The
		laser
		is

translate the information into a displayed temperature

onto a detector. The Thermometer's electronics then sense infrared energy, which is collected and focused Infrared thermometers measure the surface tempera-

ture of an opaque object. The Thermometer's optics

How the Thermometer Works

renheit)

Do not leave the Thermometer on or near objects of Operating the Thermometer

 Current Temperature Plus MIN and MAX Degree Celsius and Fahrenheit Temperature Selectable Temperature Displays

Before using the Thermometer inspect the case. Do

♠Do not point laser directly at eye or indirectly off

reflective surfaces.

not use the Thermometer if it appears damaged. Look

for cracks or missing plastic.

Button / Connector °C/°F

Description

Celsius and Fahrenheit. Press to toggle between The Thermometer turns on when you press the trigger.

of view. The laser is used for aiming only. Be sure to consider distance-to-spot size ratio and filed target, pull and hold the trigger. Release the trigger to hold a temperature reading. To measure temperature, aim the Thermometer at the The Thermometer turns off when no activity is detected

MAX/MIN displayed on the seconddisplay backlight. Press to toggle between ary display. MAX and MIN values are MAX and MIN options. Press to toggle between turning on the laser and Q. Q. A. The sequence is



or the protection supplied by the equipment may be Do not use in a manner not specified by this manua To avoid a burn hazard, remember that highly Do not operate the Thermometer around explosive Protection may be impaired. When in doubt, have the Do not use the Thermometer if it operates abnormally. Replace the battery as soon as the battery indicator

Display

gas, vapor, or dust.

Thermometer serviced.

reflective objects will often result in lower than actual

temperature measurements.

located the hot or cold spot. See Figure 5. the area with an up and down motion until you outside the target area. Then, slowly scan across To find a hot or cold spot, aim the Thermometer

Locating a Hot or Cold Spot

90% encircled energy. The maximum D:S is As the distance (D) from the target being measured form the target resulting in a spot size of 20mm (2 obtained when the Thermometer is 1000mm (100 in) the unit becomes larger. The spot size indicates Distance and Spot Size increases, the spot size (S) of the area measured by

		in).
77 10		
	2000	
	1810 2820 1810 00000 1810 1	

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

To avoid damage to the Thermometer, do not soak the

Blow off loose particles using clean compressed air.

Carefully wipe the surface with a moist cotton swab.

The swab may be moistened with water.

Cleaning the Lens

compartment the battery.

Changing the Battery

surface.

Maintenance

Measure the temperature of the tape or painted the same temperatures as the surface beneath it. ity setting. Allow time for the tape or paint to reach black paint (<150 °C/302 °F) and use the high emissiv-

To install or change the 9V battery, open the battery

Cleaning the Housing

unit into water.

Field	
Field of View	
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Field o	
Field of View Make sure that t	
he target	1 200
is larger	**************************************
Field of View Make sure that the target is larger than the s	



Laser does not v **Blank Display**

Emissivity

Specifications Function

orientations.

Certification testing was conducted using a frequency range of 80 to 100MHz with instrument in three

EN60826-1: 1994+A2: 2001+A1: 2002 Laser Safety Standard

EN61326: 2006

Function	VIT300
Auto Power off	<
HOLD	<
SCAN	
NIN	<
MAX	<
Laser turn off	<
°C /°F Selectable	<
Emissivty	0.95
Temperature Range	-18°C ~ 280°C
Maximum Measuring Accuracy	±2°C or ±2%.
	9
Repeatability	<±0.5 °C or <±0.5%

Resolution	0.1
Response Time	500mS
White Display Backlit	<

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Problem	nooting	

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Symptom

Troubles

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•	 Low or dead battery 	vork
0	Possible dead battery	-
70	Low Battery	
S	Target temperature is under range	The same
S	Target temperature is over range	
D	Problem	
-		g

Check	ad battery
Replac	
Select	erature is under range
Select	erature is over range
Action	

arget temperature is over range	Select target with specifications
arget temperature is under range	Select target with specifications
ow Battery	Replace Battery
ossible dead battery	Check and / or replace battery
Low or dead battery	 Replace battery
Ambient temperature above	 Use in area with lower ambient

Replace battery Use in area with lower ambient temperal	above
Check and / or replace battery	
Replace Battery	
Select target with specifications	der range
construction of the community of	

The second secon	ery vith lower ambient temperature.	replace battery	The state of the s	ith specifications	ith specifications		
MAD: IIII	400 6691957 Fax: 0576-86191857 Email: value@worldvalue.cn	Tel: 0576-86191958	ZHEJIANG, CHINA	INDUSTRIAL PARK OF WENLING CITY,	Address:	& ELECTRICAL PRODUCTS CO.,LTD.	ZHEJIANG VALUE MECHANICAL

The Thermometer conforms to the following standards: **CE Certification**

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