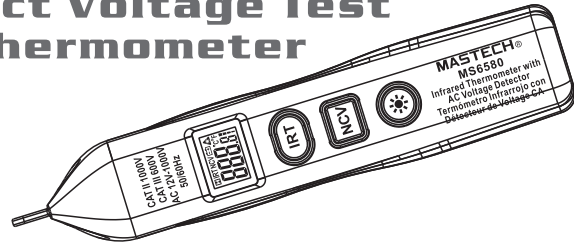


**MASTECH®**

**MS6580**

## **Non-Contact Voltage Test Infrared Thermometer**



**CE**

# MASTECH®

## CONTENTS

<b>1. Safety Information</b>	<b>.....1</b>
2.1 Components	.....2
2.2 LCD Display	.....4
<b>3. Specifications</b>	<b>.....5</b>
3.1 General specifications	.....5

# MASTECH®

## CONTENTS

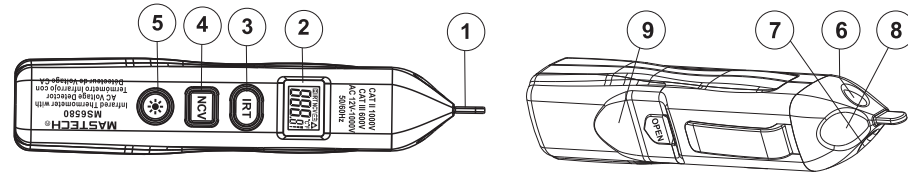
3.2 Technical Specifications	.....7
<b>4. Operations Guide</b>	<b>.....9</b>
4.1 Temperature Measurement	.....9
4.2 °C/°F Temperature unit switch	.....10
<b>5. Maintenance</b>	<b>.....15</b>
<b>6. Accessories</b>	<b>.....15</b>

## 1. Safety Information

### ⚠ WARNING

TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, PRODUCT DAMAGE OR PERSONAL INJURY, PLEASE FOLLOW THE SAFETY INSTRUCTIONS DESCRIBED IN THE USER MANUAL.

## 2.1 Components

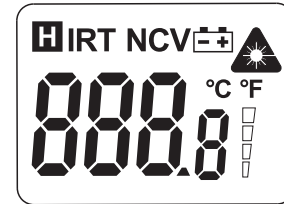


# MASTECH®

- 1) Non-contact voltage detection probe
- 2) LCD display
- 3) Infrared temperature measurement button
- 4) Non-contact voltage detection button
- 5) Flashlight button
- 6) Infrared temperature laser
- 7) LED flashlight
- 8) Infrared temperature sensor
- 9) Battery cover

# MASTECH®

## 2.2 LCD Display



°F



IRT



NCV



°C

Degrees Fahrenheit

NCV Sensitivity

Infrared Temperature

Laser Pointer

Non-Contact Voltage

Data Hold

Degrees Celsius



Low battery




Temperature  
Measurement Display

## 3. Specifications

### 3.1 General specifications

- Operating altitude Max 2000m
- Display: LCD Max value: 9999
- Polarity indication: automatic; '-' for negative polarity.
- Over range indicator: 'Hi' or 'Lo'.
- Sampling time:: approx 2 times/sec
- Auto power off time: approx 15 S.
- Power supply: AAA 2 Alkaline Batteries

- Low battery indication:  on LCD
- Temperature coefficient: less than 0.1×accuracy/°C
- Laser Pointer: Class < 2 laser 1mW power; 630-670nm wavelength
- Infrared spectral range: 8-14µm wavelength
- Operating temperature: 0°C~40°C/32°F~104°F
- Storage temperature: -10°C~50°C/14°F~122°F
- Dimensions: 152mm(L) x30.5mm(W)x31mm(H)
- Weight: approx. 220g (including batteries)

## 3.2 Technical Specifications

### 3.2.1 Infrared Temperature

1. Distance to spot ratio 4:1
2. Emissivity fixed 0.95
3. °C/°F selectable temperature units
4. Measurement range and accuracy:

Range	Resolution	Accuracy
-20°C~0°C/4°F~32°F	0.1°C/0.1°F	± 3° C/5.5°F
0.1°C~330°C/32.18°F~626°F	0.1°C/0.1°F	± (1.5% of reading + 2°C/3°F)



### 3.2.2 Non contact voltage detection :

AC voltage 12V~1000V (50Hz~60Hz)  
NCV sensitivity digitally adjustable  
4 levels of sensitivity

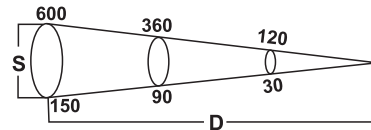
## 4. Operations Guide

### 4.1 Temperature Measurement

**Note: During temperature measurement do not point laser pointer towards anyone's eyes.**

1. Point the temperature sensor at the object to be measured and hold the IRT button to start temperature measurement. The meter displays the measured temperature and activates the laser pointer and displays  icon.
2. Release the IRT button to hold the measurement on the display.  icon indicates measurement being held. Note: To ensure the object to be measured is completely inside the thermometer's field of view, move the meter further away the larger the object is. D:S ratio=4:1.

Unit:mm



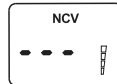
D(distance):S(spot size)=4:1

### 4.2 °C/°F Temperature unit switch

1. Pressing the IRT button at the same time as the NCV button will switch the temperature unit between °C and °F.

## 4.3 Non Contact Voltage Detection


Move the non-contact voltage probe near a charged conductor and hold down the NCV button and the display show the following:



When the meter detects AC voltage, the meter will beep and the LED next to the detection probe will flash...:

**Note: Voltage may still exist even if there is no indication. Do not solely rely on non-contact voltage detector to determine presence of voltage. The measurement may be affected by the design of the outlet,, type of insulation and other external factors..**

## 4.4 Adjusting NCV sensitivity

While holding the NCV button press the IRT button to change the sensitivity of the non contact voltage test. The symbol  represents the current sensitivity of the meter. The default sensitivity is 4; pressing the IRT button while holding the NCV button will decrease the sensitivity by 1..


## 4.5 LED Flashlight

Hold the  button to turn on the LED flashlight. Release the button to turn off flashlight...



## 5. Maintenance

### 5.1 Replacing the batteries

1. When the  symbol appears, the batteries should be replaced..
2. remove the battery cover from the underside of the meter.
3. Replace batteries.

## 6. Accessories

- |                  |             |      |
|------------------|-------------|------|
| 1) User's manual |             | 1 pc |
| 2) Batteries     | AAA Battery | 2 pc |

