

## Testmate MW-100 Microwave Leakage Checker

### Introduction

The Testmate MW-100 Microwave Leakage Checker is a digital, low cost and easy to use instrument designed to detect RF microwave leakage from Microwave Ovens. Microwave radiation is both odourless and invisible.

Leakage can be caused by slamming the oven door, leaving food particles in the hinges or seals and moving the oven around etc. leakage should be no greater than 5mW/cm<sup>2</sup> at a distance of 5cm (The MW-100 has a built in 5cm spacer) from the Microwave Oven.

The MW-100 allows swift and easy detection of such microwave sources

### Key Features:

- Measuring range 0-9, 99mW/cm<sup>2</sup>
- LCD digital readout
- Zero and Max Buttons to facilitate easy operation
- Buzzer and red lamp flashes over 5mW/cm<sup>2</sup>
- Ergonomic, easy to use Instrument
- Built in 5cm Spacer



### Specifications

Power Source	9 Volt PP3 Battery (IEC 6F22)
Nominal Operating Frequency	2450 MHz
Range	0-9.99mW/cm <sup>2</sup>
Warning Value	5.0 mW/ cm <sup>2</sup>
Sensor Spacer	5cm
Dimension (HxWxD)	210mmx60mmx42mm
Weight	175g
Warranty	1 Year Manufacturer's Warranty

### Maintenance

The MW-100 is designed to give many years of trouble free operation. With the exception of the battery there are no user serviceable parts.

## What's Included?

- Testmate MW100 and Instruction Manual

## Operation

Place in the oven a plastic beaker containing at least 275cc of water.

Turn on the MW-100 and holding at least 75cm away from the microwave oven press and hold the Zero button until you hear three beeps – The meter is now ready to be used.

Set the oven at full power and switch on.

With the end of the spacer touching the Microwave Oven move the checker slowly (no more than 5cm/sec) around areas of suspected leakage paying particular attention to the door, seals, window, hinges, edges and joints in the microwave oven case.

The MW-100 incorporates a single plane sensor. So that more accurate readings are obtained the MW-100 should be rotated about its axis as the oven is checked. This is required due to the variable polarization of the microwaves generated by the oven

The digital display must not exceed 5mW/ cm<sup>2</sup> if it does the beeper will sound and the red LED above the display will light.

Should the unit indicate leakage in excess of 5mW/ cm<sup>2</sup> you should stop using the Microwave oven and have it checked using a Calibrated Instrument with a multiplane sensor which will be able to accurately verify the reading obtained with the MW-100 \*\*

The MW-100 is designed to give an indication to the levels of leakage from a Microwave Oven

In the event of high leakage being indicated this may not indicate a faulty oven.

Such readings should be verified using a high accuracy Microwave Leakage Meter capable of reading plane wave of all polarizations.

The Instrument should carry a valid Calibration Certificate traceable to National Standards.

**\*\* This unit must be operated in accordance with these Instructions to give reliable readings.**

Order Code – MW-100