

# Power Meter Test Fixture

GPM-001

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## USER MANUAL

GW INSTEK PART NO. 82PM-00100MA1



ISO-9001 CERTIFIED MANUFACTURER

**GW INSTEK**

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## INTRODUCTION

The GPM-001 power meter test fixture is an accessory designed by GW Instek for applying to the GPM-8213. It was designed for customers to handy use the four measurement terminals on the front panel of the GPM-8213 to test products, which eliminates the need for repetitive wiring as well as the trouble caused by wiring.

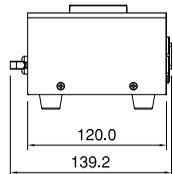
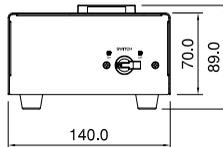
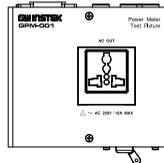
### Package Contents

Check the contents before using the instrument.

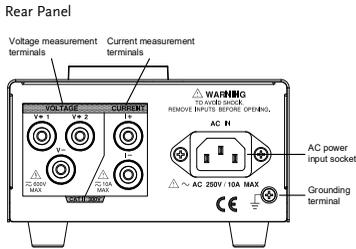
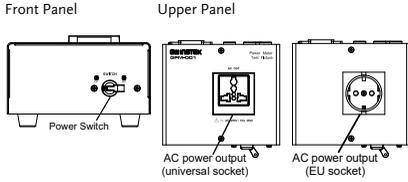
- |          |   |
|----------|---|
| Contents | <ul style="list-style-type: none"><li>• Main unit</li><li>• Test leads (red x2, black x2)</li></ul> |
|----------|---|



## Dimensions



## Appearance



3

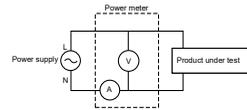
## CONNECT THE FIXTURE

Use the GPM-001 power meter test fixture to perform the AC input power consumption test of product. Connect the GPM-001 in series to the DUT and the mains. The wiring method is related to the test accuracy. Two kinds of wiring methods are suggested as below.

### Wiring method

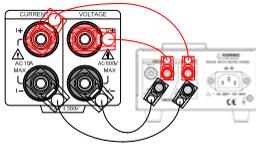
When measuring a larger current Connect the voltage measurement terminal to the side of the load. Please use V+2 and V- terminal as voltage measurement terminals and I+ and I- terminal as current measurement terminals.

Connection



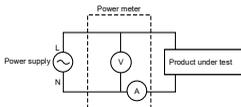
$$\text{Power loss} = (\text{Input voltage}[V])^2 / 2.4M\Omega$$

4

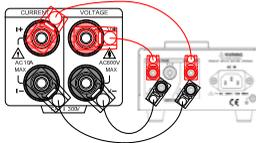


When measuring a smaller current Connect the voltage measurement terminal to the side of power supply input. Please use V+1 and V- terminal as voltage measurement terminals and I+ and I- terminal as current measurement terminals.

Connection



$$\text{Power loss} = (\text{Input current}[A])^2 \times 500m\Omega$$



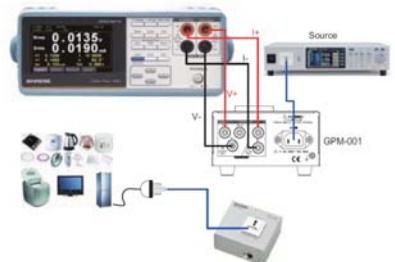
### Wiring method when using the test fixture

When using a fixture, there is no need to destroy the original plug. The wiring method is really simple and details steps are described as below.

5

Steps

1. Insert the input terminal of DUT to the AC universal socket of the GPM-001 power meter test fixture.
2. The voltage terminal and the current terminal will be assigned automatically from the AC socket through the GPM-001 power meter test fixture. Connect the voltage and the current terminals of the fixture to the corresponding input terminals of the front panel of the GPM-8213 with test leads.
3. Connect AC power to the AC outlet on the rear panel of the GPM-001 power meter test fixture.
4. Turn on the AC power switch on the front panel of the GPM-001 power meter test fixture to start testing.



6