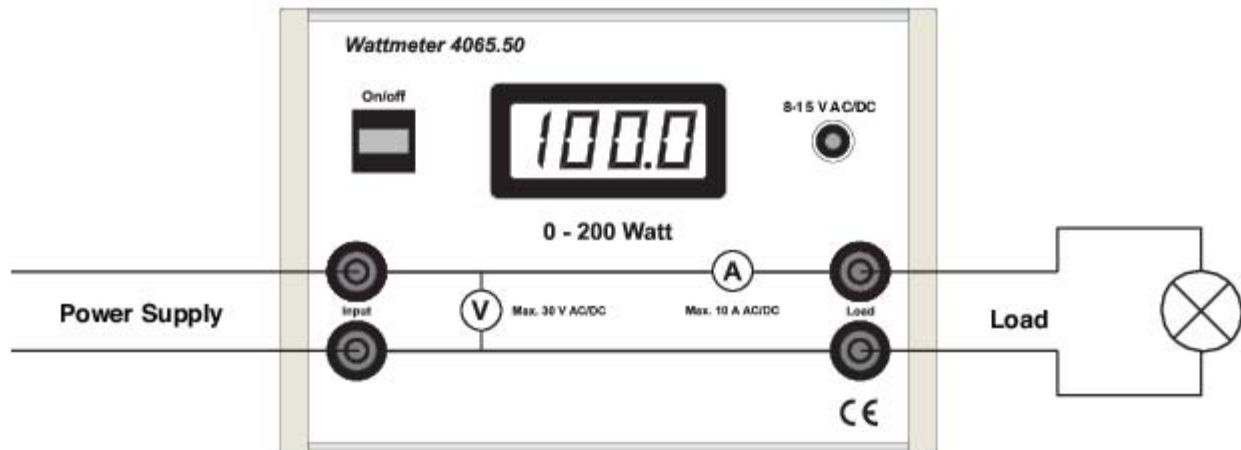


Wattmeter



Description:

Student watt meter for measuring the power of low voltage sources. The instrument measures both DC and AC, and it is provided with an automatic turnoff function after about 15 minutes. To restart push on/off. The instrument is supplied with 4 mm diameter safety bushings for connecting test leads, and it can handle up to 30V AC/DC and up to 10A AC/DC. The instrument uses four AA batteries. An optional mains adapter (Part number 3550.10 or 3550.20) can also be used.

Measuring technique:

The instrument performs measurements using an analog multiplier to determine the dissipated power in the load (True RMS).

Operation:

The instrument is turned on by pressing the On/off button in the upper left hand corner. If the battery is dead, the display will not turn on. A critical low battery state is indicated by the text BAT in the display. Power supply is to be connected to the two sockets marked "Input" at the left side of the apparatus, and the load is to be connected to the two marked "Load" at the right side of the apparatus. The power dissipated by the load can then be read directly from the display.

Important!

This apparatus is battery operated. The battery supplied with it is wrapped in insulating cellophane and placed in the battery holder. Unwrap the battery and place it in the holder before operation.

Technical Data:

Measuring range: 0-200 W. The instrument can display higher power values, but there will be greater uncertainty in these values. It is not recommended that the apparatus be subjected to loads exceeding 300 W.

Resolution: 0.1 W
Accuracy: +/- (5% of value + 1 W)
Input voltage: Max +/- 30 V AC/DC
Input current: Max +/- 10 A AC/DC
Frequency range: DC and 25-300 Hz