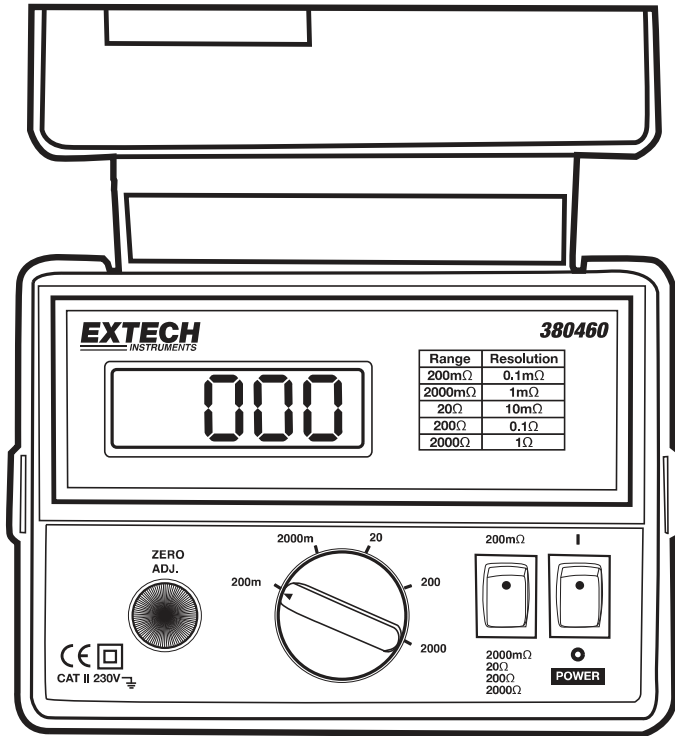


## Precision Milliohm Meters

### Models 380460 and 380462

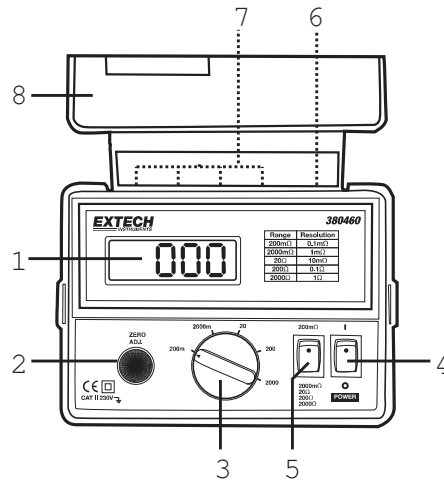


## Introduction

Congratulations on your purchase of the Extech Milliohm Meter Model 380460 (110V) or Model 380462 (220V). The milliohm meters are enclosed in rugged carrying cases for durability. Measurements are made with Kelvin test leads (supplied) for optimal accuracy in five (5) selectable ranges. Careful use of this meter will provide years of reliable service.

## Meter Description

1. LCD Display
2. Zero adjust knob
3. Range Dial
4. Power switch
5. 200mΩ select switch
6. AC power cord
7. Kelvin lead to meter connections
8. Carrying case






## Powering the Meter


Connect the meter to the correct power source (110 or 220VAC); the Model 380460 uses 110VAC and the Model 380462 uses 220VAC (note that these meters are NOT interchangeable). Do not apply voltage to the meter input measurement terminals. Meter damage may result.

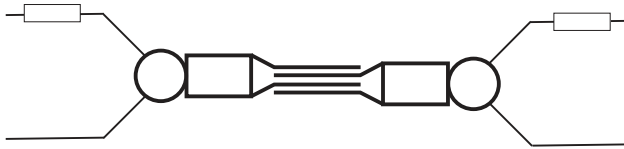
## Measurement Procedure

1. Rotate the Range select switch to the desired range.
2. When using the 200m range, put the 200m select switch to the 200m position; for all other measurement ranges put this switch in the opposite position
3. Perform a Zero Adjustment per the following:

 Short the Kelvin Clips as shown in the diagram below.

(Make sure that the clips are clean)

 Rotate the Zero Adjust Knob until the meter indicates zero units.



4. Either attach the test leads onto a component or attach the leads between two points on a circuit.
5. Observe the meter reading.

# Specifications

## General Specifications

Circuit	Custom one-chip LSI microprocessor circuit
Display	18 mm (0.7") LCD with 2000 display counts
Measurement terminals	4-Terminal Kelvin type
Measurement ranges	Five (5) ranges (200m, 2, 20, 200, 2000 $\Omega$ hms)
Zero Adjust	$\pm$ 50 count adjustment
Sampling Time	Approximately 0.4 seconds
Over range indication	Indication of "1 "
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Operating Humidity	80% Relative Humidity max.
Power Supply	110V (380460) or 220V (380462) $\pm$ 15%, 50/60Hz
Power Consumption	Less than 2 VA
Weight	694g (1.53 lbs.)
Dimensions	167 x 122 x 85 mm (6.6 x 4.8 x 3.4") with cover
Accessories	Power Cable and 4-wire Kelvin clip leads(380465)

## Range Specifications

Range	Resolution	Test Current	Accuracy	Open Circuit Voltage
200 m $\Omega$	0.1m $\Omega$	100mA	$\pm$ 0.75% + 4 digits	4.4V
2 $\Omega$	1m $\Omega$	10mA	$\pm$ 0.75% + 2 digits	3.6V
20 $\Omega$	10m $\Omega$	10mA	$\pm$ 0.75% + 2 digits	3.6V
200 $\Omega$	0.1 $\Omega$	1mA	$\pm$ 0.75% + 2 digits	3.5V
2000 $\Omega$	1 $\Omega$	1mA	$\pm$ 0.75% + 2 digits	3.5V

Note: Specifications tested using RF Field Strength <3V/m and frequency <30MHz

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