



Thomas RECORDING GmbH

- The Microelectrode Company -

Electrode Impedance Tester (EIT-201)



Key Features:

- Metal microelectrode impedance test
- Impedance range from 0-1MOhm and from 1-10MOhm
- Testing frequency: 1kHz, sine wave
- Save to use nanoampere test current
- Digital displayed impedance values
- Easy to use labstand with electrode holder and preamplifier
- Low cost, high precision instrument

Electrode Impedance Tester (EIT-201)

The impedance value of a metal micro-electrode for neurophysiological research is a very important parameter to characterize the recording performance of the microelectrode.

The Metal Electrode Impedance Tester Model **EIT-201** is a precision instrument for measuring metal electrode impedance at a frequency of 1kHz. It is designed as a bench-top model.



Fig. 1: EIT-201

The model **EIT-201** will measure electrode impedance in the two ranges 100kOhm...1MOhm and 1MOhm...10MOhm and displays the impedance value on an easy to read high quality digital liquid-crystal-display (LCD). A toggle switch is provided to select one of the two



Fig. 2: Preamplifier of the EIT-201

impedance test ranges.

The EIT-201 has its own sine wave oscillator integrated which generates a very stable 1kHz sine wave test signal. The elec-

trode impedance is measured with a constant current of 5nA. The EIT-201 measuring circuit is largely unaffected by micro-electrode offset or tip junction potentials.



Fig. 3: Laboratory stand with electrode impedance tester preamplifier, electrode holder and beaker for saline solution

For further information please feel free to contact us at:

info@ThomasRECORDING.com

Electrode Impedance Tester (EIT-201)

Technical Data:

Parameter	Value
Dimensions and Weight	
Length (mm)	250
Width (mm)	180
Height (mm)	74
Weight (grams)	70
Power Supply	
Supply voltage (V AC)	100—240
Frequency (Hz)	50—60
Impedance Test	
Impedance test range 1	100k...1M
Resolution	1k
Impedance test range 1	1M...10M
Resolution	10k
Test Signal Frequency	1kHz
Test Signal Waveform	Sine wave
Environmental condition	
Operating temperature range	+10°C to +40°C
Transport temperature range	+10°C to +40°C
Humidity	20% - 80% RH (non-condensing)

Ordering Information:

Pos.	Product description	Article number	Price
1.0	Electrode Impedance Test Device	EIT-201	On request

Contact Information:

Email: info@ThomasRECORDING.com