

OPERATING INSTRUCTIONS

Electronic Module System Twenty Times Pre-Amplifier No. 32388

1. Introduction

The Twenty Times Pre-Amplifier is for use with the Amplifier/Power Supply (32386). It can provide an additional 20 times gain to the existing gain of the amplifier/power supply. The combined gain of the two instruments is 0-2000.

2. Description

This sturdy unit is housed in a metal case, with color-coded connection jacks. The twenty times pre-amplifier accepts inputs from banana plugs or a 1/8" phone jack; the banana jack inputs are disabled when you use the microphone jack. The input impedance is 1 M Ω , shunted by 50 pF. The drift is 50 mV/ ∞ C maximum referred to input.

3. Setup and Operation

Plug the twenty times pre-amplifier unit into the side connection of the amplifier/power supply. Plug the signal to be amplified into the twenty-times pre-amplifier input. Signals input into the twenty times pre-amplifier can be amplified up to 2,000 times the voltage input when the amplifier/power supply is adjusted to its full-gain condition.

Use the the twenty times pre-amplifier with the amplifier/power supply and thermo-couples and microphones, or as a meter amplifier with the Six-Range DC Meter (32381). An input of 1 mV into the twenty times pre-amplifier generates a full-scale deflection on the six-range DC meter in the 0-2V range when a maximum gain is applied to the amplifier/power supply.

For more detailed information about using the Twenty Times Pre-Amplifier, consult the Student Lab Manual for Modular Electronics Systems (30195-02).

4. Maintenance

The Twenty Times Pre-Amplifier requires no special maintenance. If you experience any problems with this apparatus or need more information about operating it, contact Central Scientific Company. To ensure better service, please do not return any equipment until we have sent you authorization.

5. Accessories

<u>Description</u>	<u>Catalog No.</u>
Amplifier/Power Supply	32386
Six-Range DC Meter	32381
Student Lab Manual for Modular Electronics Systems	30195-02

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