- NIST TRACEABLE
 MEASUREMENT
 PERFORMANCE TO
 ± 30 ppm
- DIRECT READING: 5½ to 7½ DIGIT RESOLUTION TO -1 ppm
- FAST READING RATES
- FREQUENCY MEASUREMENT
- SIMULTANEOUS
 DISPLAY OF
 VOLTAGE &
 FREQUENCY
- FULLY IEEE-488.2 PROGRAMMABLE
- SPECIFICALLY
 DESIGNED FOR US
 NAVY PROGRAM

he Model 4920M Alternating Voltage Measurement Standard is the latest generation of AC calibration devices aimed at replacing instruments that are presently using cumbersome thermal techniques. The unique method of operation utilizes an embedded DC reference system, providing a totally self contained ACIDC Transfer process, eliminating critical external DC setup operations. The 4920M offers performance which meets or exceeds traditional thermal approaches and provides fast, stable, foolproof measurements, either manually or remotely via its IEEE bus facility.









Specifications

EUROPE, MIDDLE EAST & AFRICA

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19A Chuang's Finance Centre, 81-85 Lockhart Road, Wanchai, Hong Kong Telephone: 5-865 1903

Fax: 5-865 6716 Telex: (230) 446 655 wtk-hkg

Frequency Bands AV-Normal Band (Hi- Ω) Input: 10 Hz to 1 MHz AV-Wide Band (50 Ω) Input:

Scale Length

10 Hz to 20 MHz

To match a wide variety of applications, the scale length can be set from 51/2 to 71/2 digits, all with 10% overrange.

Absolute Accuracy

Six month absolute accuracy, ±5°C traceable to and including NIST uncertainties:

AV-Normal Band Input 0.1V-100V

10-40 Hz	75 ppm
40-20 kHz	30 ppm
20-50 kHz	70 ppm
50-100 kHz	150 ppm
100-500 kHz	300 ppm
500 kHz-1 MHz	1000 ppm
100V-1kV	
10-40 Hz	80 ppm

	- 1-1
40 Hz-20 kHz	35 ppm
20-50 kHz	75 ppm
50-100 kHz	150 ppm

AV-Wide Band Input

0.1V-1V

10 Hz-500 kHz $1250 \text{ ppm} + 75 \mu\text{V}$

1V-3.5V

10 Hz-500 kHz 1000 ppm 1250 ppm 500 kHz-1 MHz 1-10 MHz 1500 ppm 10-20 MHz 2000 ppm

Selftest

There are two levels:

- 1. Operational to indicate the unit basically functions.
- 2. Diagnostic to indicate detail areas of unit failure.

Real Time Clock

Indicates when out of calibration validation period.

Frequency Counter Display Range:

Normal Band:

10 Hz to 1MHz autoranging

Extended Band:

200 Hz to 20 MHz autoranging

Resolution: 6 digits.

Accuracy: 10 ppm + 1 digit.

Remote Programming

Programmable via IEEE-488.2 interface.

Update/Reading Rate

Normal Band:

> **100Hz:** 3 sec./rdq <100Hz: 6 sec./rdg Wide Band: 20 sec./rdq

GENERAL

Dimensions: 3.5 in. high, 16.8 in. wide, 19.2 in. deep.

Weight: 26lb/12kg

Design: Tested to MIL-T-28800D, Type III, Class 5, Style E.

Configurations

Model 4920M: Alternating Voltage

Measurement Standard Option 90: Rack Mount Kit Option 1502: Input Lead with N

type connector