



AVMS

- Alternating Voltage Measurement Standard
- High Accuracy - Simple and Easy to Use
- Fully IEEE-488.2 Programmable

The 4920 AVMS is designed to replace the traditional AC/DC Thermal Transfer Standard in high accuracy AC measurement applications. Fully traceable measurements can be made with uncertainties equal to or better than all but the most specialized standards, but with the speed, ease of use and convenience of a single, programmable, intelligent device. The ease and speed of use of the 4920 make it the most economical method of high accuracy AC calibration.

AC Voltage

Ranges: 3 mV to 1000V in 3, 10, 30 sequence.

Resolution: 100 nV, 7 1/2 digits.

Operating Range: from 30% to 110% of Nominal Range Value.

Accuracy: 90 Days, 23°C ± 1°C, ±(ppmR) - Spot calibrated specifications shown for 300mV to 1000V ranges:

3mV Range

1270	(10 - 100Hz)
1100	(100 - 30kHz)
1580	(30k - 200kHz)
2750	(200k - 500kHz)
5400	(500k - 1MHz)

10mV Range

390	(10 - 100Hz)
230	(100 - 30kHz)
530	(30k - 200kHz)
1450	(200k - 500kHz)

3500 (500k - 1MHz)

30mV Range

310	(10 - 100Hz)
180	(100 - 30kHz)
390	(30k - 200kHz)
1150	(200k - 500kHz)
2700	(500k - 1MHz)

100mV Range

235	(10 - 100Hz)
100	(100 - 30kHz)
210	(30k - 200kHz)
620	(200k - 500kHz)
1600	(500k - 1MHz)

300mV, 1V, 3V, 10V and 30V Ranges

250	(1 - 2Hz)
50	(2 - 10Hz)
10	(10 - 30kHz)
25	(30k - 200kHz)
75	(200k - 500kHz)
200	(500k - 1MHz)

100V Range

250	(1 - 2Hz)
50	(2 - 10Hz)
10	(10 - 30kHz)
25	(30k - 200kHz)

300V and 1000V Ranges

260	(1 - 2Hz)
60	(2 - 10Hz)
15	(10 - 20kHz)
30	(20k - 100kHz)

Wideband Option (Option 50)

Range: 1V to 3.5V on single 3V range.

Input: N-type connector, 50Ω impedance, VSWR = 1.02:1 (10Hz - 50MHz)

Accuracy: 1 year, 23°C ± 1°C

0.1%	(10 - 40Hz)
0.125%	(40 - 1MHz)
0.15%	(1M - 10MHz)
0.2%	(10M - 20MHz)
0.5%	(20M - 30MHz)
2%	(30M - 50MHz)

Flatness: WRT 1kHz, 1 year, 23°C ± 1°C

0.075%	(10 - 40Hz)
0.025%	(40 - 1MHz)
0.05%	(1M - 10MHz)
0.1%	(10M - 20MHz)
0.3%	(20M - 30MHz)
1%	(30M - 50MHz)

GENERAL

Remote Programming:

IEEE-488.2

Environmental:

Operating Temp: 0°C to +50°C.

Dimensions: 88 mm (3.5 in.) X 427 mm (16.8 in.) X 487 mm (19.2 in.)

Weight: 11.8 kg (26 lb.).

Power: 100-130 Vac or 200-260 Vac, 47 to 63 Hz, 37VA.

CONFIGURATIONS

Model 4920: Alternating Voltage Measurement Standard, with 300mV to 1000V ranges.

OPTIONS

10: 3mV to 100mV Ranges

50: Wideband Module to 50MHz

80: 115V 60 Hz Line Operation

81: 115V 50 Hz Line Operation

90: Rack Mounting Kit

95: Rack Mount Slides

ACCESSORIES

1508: Datron 470X series calibrator safety connector to 4920 N-type AC lead kit

1509: Datron 470X series calibrator safety connector to 4920 banana AC lead kit

1512: Datron 480X series calibrator safety connector to 4920 N-type AC lead kit

1515: N-type to N-type lead kit for Wideband function

1516: Datron 480X series calibrator safety connector to 4920 banana DC lead kit

4921: Adaptor for Fluke A40 Current Shunts

ORDER INFORMATION

Model 4920

Option 10

Option 50

Option 80

Option 81

Option 90

Option 95

Accessory 1508

Accessory 1509

Accessory 1512

Accessory 1515

Accessory 1516

Accessory 4921

Factory/FOB: Indianapolis, IN &

Norwich, England