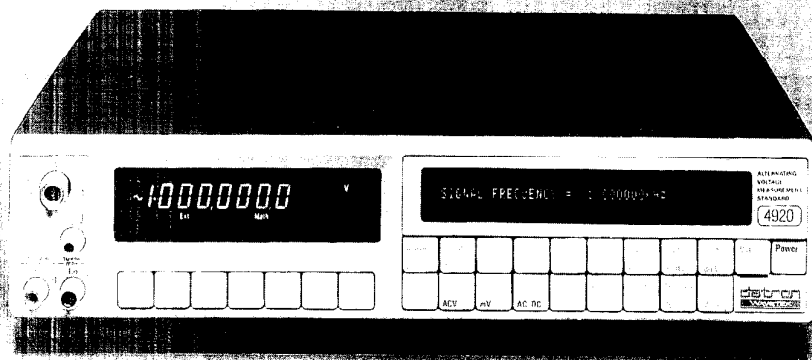


## CALIBRATORS

### MODEL 4920



# 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)
<b>30mV Range</b>	
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)
<b>Flatness:</b> 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

<b>Model 4920</b>	<b>\$10,495</b>
<b>Option 10</b>	<b>\$1,570</b>
<b>Option 50</b>	<b>\$2,995</b>
<b>Option 80</b>	<b>NC</b>
<b>Option 81</b>	<b>NC</b>
<b>Option 90</b>	<b>\$165</b>
<b>Option 95</b>	<b>\$385</b>
<b>Accessory 1508</b>	<b>\$295</b>
<b>Accessory 1509</b>	<b>\$245</b>
<b>Accessory 1512</b>	<b>\$295</b>
<b>Accessory 1515</b>	<b>\$445</b>
<b>Accessory 1516</b>	<b>\$295</b>
<b>Accessory 4921</b>	<b>\$415</b>

**Factory/FOB:** Indianapolis, IN & Norwich, England

Model	Description <b>Standards</b>	US List (US\$)	
		Gross Shipping Weights lbs      kg	
<b>4950MTS</b>	Multifunction Transfer Standard System (plus full NAMAS certificate of calibration)..... (includes 4950 Multifunction Transfer Standard, MTS Control Software, signal input lead, 10 Amp AC/DC Shunt, Ruggedized transit case, N.I. GPIB interface kit, transit environmental monitor, shock monitor) Option 90      Rack Mount ..... Option 95      Slide Mount Rack ..... Option 100      Two days hands-on Technical Training ..... (Includes system overview, calculation and determination of system uncertainties, understanding and implementation of software correction files. Price does not include transportation.) 4950 MTS Configured System Option A      Configured with PC Compatible Desktop System Controller (HP Vectra 133MHz)	68      31	<b>26,355</b>  <b>185</b> <b>675</b> <b>1,550</b>  <b>3,995</b>
<b>4953</b>	10 Amp AC/DC Current Shunt - Retrofit to 4950 ..... 4950 should be returned to a Wavetek Service Center for recalibration. List Price includes cost of 4953 calibration against 4950. (A valid certificate of calibration can be produced only when calibrated in conjunction with a 4950)		<b>695</b>
<b>4910</b>	4 Cell Electronic Reference (10 V, 1 V and 1.018 V) ..... Option 10      Calibration and Hot Shipment ..... Option 30      Preset 1.018 V Output ..... Option 40      Ruggedized Transit Case ..... Option 50      Soft Case and Terminal Protector .....	55      25	<b>15,175</b> <b>450</b> <b>125</b> <b>765</b> <b>175</b>
<b>4911</b>	4 Cell Electronic Reference (10 V only) ..... Option 10      Calibration and Hot Shipment ..... Option 40      Ruggedized Transit Case ..... Option 50      Soft Case and Terminal Protector .....	50      21	<b>10,052</b> <b>450</b> <b>765</b> <b>175</b>
<b>4912</b>	Single Cell Electronic Reference (10 V, 1 V and 1.018 V) ..... Option 10      Calibration and Hot Shipment ..... Option 30      Preset 1.018 V Output ..... Option 40      Ruggedized Transit Case ..... Option 50      Soft Case and Terminal Protector .....	41      19	<b>6,792</b> <b>450</b> <b>125</b> <b>765</b> <b>175</b>
<b>4920</b>	AV Measurement Standard ..... Option 10      Millivolt Measurement Function ..... Option 50      Wideband ..... Option 80      115 V, 60 Hz Line ..... Option 90      Rack Mount Kit ..... Option 95      Rack Mount Slides .....	33      15	<b>14,065</b> <b>2,850</b> <b>3,395</b> <b>N/C</b> <b>185</b> <b>675</b>
<b>4920M</b>	AC Measurement Standard .....	33      15	<b>18,020</b>
<b>4921</b>	Current Shunt Adaptor (for use with Fluke A40 shunts) .....		<b>560</b>



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