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DIGITAL VOLTMETERS

True RMS Voltmeter

Model 3403C

- DC and 2 Hz to 100 MHz
- 3½ digit



Description

The Model 3403C is usable from dc to 100 MHz. True rms is especially valuable for measurements of noise, multiplexed signals, modulated waves and signals with high harmonic content.

dB Display

The dB display option provides readings directly in dB, a major convenience to ac users. The dB reference to which the measurement is made is conveniently adjustable from the front panel to provide referenced dB measurements, or to provide a convenient means to offset the reading by as much as 13 dB for unreferenced measurements.

Specifications

Ranges

Full range display: 10.00 mV (ac only); 100.0 mV; 1.000 V; 10.00 V; 100.0 V; 1000 V.
Overrange: >90% on all ranges except as limited by max input voltage.
Ranging information: front panel annunciators indicate overrange (approximately 190% of full range), or underrange (approximately 17% of full range) conditions.

Performance

AC Frequency Range
Slow response: 2 Hz to 100 MHz.
Fast response: 25 Hz to 100 MHz.
Response Time
Fast response: 1 s.
Slow response: 10 s.
Instrument reads final reading ±0.1% of input change in stated response time.
Display Rate
Fast response: 4 readings per s.
Slow response: 2 readings per s.

Functions
DC: responds to dc component of input signal.
AC: responds to true rms value of ac coupled input signal.
AC+ DC: responds to true rms value of dc and ac input signal; reading is $\sqrt{(dc)^2 + (ac\ rms)^2}$
Temperature coefficient: ±(0.1 x reading accuracy*/°C) outside the 25°C ±5°C temperature range.
Accuracy: 90 days (25°C + 5°C, <95% RH, 17% of range to 190% of range).

*Data from accuracy charts.

READING ACCURACY = ±(% OF RANGE + % OF READING)**

RANGE	% OF RANGE (VOLTS) DC	DC - AC	AC	% OF READING (VOLTS) DC	2 Hz	25 Hz	100 KHz	1 MHz	10 MHz	100 MHz
1000V	.3	.3	.3	.2	.4*	.2				
100V	.2	.2	.2	.2	.4*	.2	1			
10V	.2	.2	.2	.2	.4*	.2	.5	1		
1V	.2	.2	.2	.2	.4*	.2	.5	1	2	5 10
100mV	.6	.6	.2 .4	.2	.4*	.2	.5	2	2	5 10
10mV			.2 .4			.3	1.2	3		

CAUTION: frequencies and ranges in this area may result in invalid readings without ranging indication.

* DC + AC function and slow response time only

** % of reading specification is representative of typical flatness.

Input Characteristics

Input impedance: (<10 MHz)
1 V to 1000 V range: 10 MΩ ± 10% shunted by 24 pF ± 10%.
10 mV and 100 mV range: 20 MΩ ± 10% shunted by 20 pF ±10%.

Maximum Input Voltage

High to low: 1000 V rms, 1500 peak or 10^8 V-Hz on any range. Maximum dc voltage in ac mode: 500 V dc.
Low to chassis: ±500 V dc, when floated with special banana to BNC adapter.

Options:

Autoranging (3403C option 001)
Automatic ranging: uprange at approximately 190% of full range; downranges at approximately 17% of full range.
Autorange time: fast response: 1 s per range change. Slow response: 10 s per range change.
Remote control + digital output + autoranging (3403C option 003): Provides remote control of all front panel functions, ranges, digital output and autoranging.
dB Display (3403C option 006)
Measurement range: 108 dB (−48 dBV to +60 dBV).
Calibrated dB reference: 0 dB= 1.000 V; reference level may be set for 0 dBm (600Ω) by adjusting front panel dB calibration adjustment.
Variable dB reference: reference level may be shifted downward from calibrated position >13 dB.

General

Operating Conditions
Temperature range: 0°C to 50°C.
Humidity: <95% RH.
Recorder Output
Output voltage: 1 V dc open circuit for full range input.
Output resistance: 1 kΩ ± 10%.
Power: 115 V or 230 V ±10%, 48 Hz to 440 Hz, 35 VA max. (including all options).
Input terminals: BNC front panel connector standard for low to high terminals: rear panel connector available by internally reversing position of ac converter module.
Weight: including all options: net, 5 kg (11 lb). Shipping, including all options: Net, 7.2 kg (16 lb).
Size: 127 H x 234.9 W x 196.8 mm D (5″ x 9.25″ x 7.75″).
Accessories furnished: floating adapter-banana to BNC.

3403C True RMS Voltmeter	**$4000**
Opt 001 autoranging	add $205
*__Opt 003__ remote control + digital output + autoranging	add $405
*__Opt 006__ dB display	add $380

*Options 003 and 006 available only as factory installed options.

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