

7½ DIGIT BENCH TOP TRMS DIGITAL MULTIMETER MODEL KM 3700















Features

- 7½ digits digital DMM with 1nV resolution. With 20 ppm basic DCV accuracy.
- Up to 10,000 memory points. Fast reading speeds up to 30,000 readings per second.
- 4.3-inch LCD color display. True RMS AC (voltage & current) measurement.
- Measure DC current down to 1μA range and 0.1pA resolution.
- Graphical display with built-in bar, trend charts, histogram, and statistics.
- Front and rear input terminals provide ideal connection space for bench and system test.
- Dual display allows clear and quick view of voltage and frequency measurements at the same time.
- Various measurements: ACV, DCV, ACI, DCI, 2-wire and 4-wire resistance, capacitance, frequency, period, diode, continuity, temperature.
- Multiple connectivity options USB 2.0, serial interface RS-232/485, optional LAN, optional GPIB.
- SCPI commands standard.

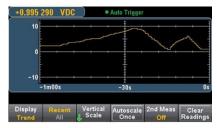
Number mode, the traditional "digits" view of measurements.



Bar meter mode, the number display along with analog meter to provide a visual view of measurements.



Trend Chart - continuous measurement mode, Provide data trends over time.



Histogram mode, a statistical view of measurements.



Built-in math functions - dB



Built-in math functions – Hold



All Specifications are subject to change without prior notice.

Overview

Digits of Resolution	71/2
Basic DCV Accuracy	20 ppm
Max Reading Rate	30, 000 rdgs/s
Memory	10, 000 rdgs
DCV	100 mV to 1, 000V
ACV (RMS)	100 mV to 750 V
DCI	1 μA to 10 A
ACI	10 μA to 10 A
2-wire and 4-wire Resistance	100 Ω to 100 M Ω
Continuity, Diode	1 kΩ, 5V
Frequency, Period	3Hz to 300 kHz / 33ms to 333µs
Temperature	RTD, Thermistor
Capacitance	1.0000 nF - 100.0 μF
Dual Line Display	Yes
Display	4.3-inch LCD color display
Statistical Graphics	Histogram, bar chart, trend graph
Front Input Terminals	Available
Rear Input Terminals	Available
USB	Available
RS232/485	Available
LAN	Available
GPIB	Available

Specification

Accuracy specifications: ±(% reading + % range) 1

Range ² /Frequency	24 hours ³	90 days	1 year	2 years	Temperature				
	T _{CAL} ± 1 ℃	T _{CAL} ± 5 ℃	T _{CAL} ± 5 ℃	T _{CAL} ± 5 ℃	Coefficient/℃ ⁴				
DC voltage									
100 mV	0.0030 + 0.0030	0.0040 + 0.0035	0.0040 + 0.0035	0.0045 + 0.0035	0.0005 + 0.0005				
1 V	0.0010 + 0.0004	0.0015 + 0.0004	0.0020 + 0.0004	0.0025 + 0.0004	0.0005 + 0.0001				
10 V	0.0008 + 0.0002	0.0013 + 0.0002	0.0016 + 0.0002	0.0020 + 0.0002	0.0005 + 0.0001				
100 V	0.0020 + 0.0006	0.0032 + 0.0006	0.0038 + 0.0006	0.0040 + 0.0006	0.0005 + 0.0001				
1000 V ⁵	0.0020 + 0.0006	0.0032 + 0.0006	0.0038 + 0.0006	0.0040 + 0.0006	0.0005 + 0.0001				
Resistance ⁶ (Test Current)									
100 Ω	0.0030 + 0.0030	0.008 + 0.004	0.010 + 0.004	0.012 + 0.004	0.0006 + 0.0005				
1k Ω	0.0020 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.012 + 0.001	0.0006 + 0.0001				
10 kΩ	0.0020 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.012 + 0.001	0.0006 + 0.0001				
100 kΩ	0.0020 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.012 + 0.001	0.0006 + 0.0001				
1 ΜΩ	0.002 + 0.001	0.008 + 0.001	0.010 + 0.001	0.012 + 0.001	0.0010 + 0.0002				
10 ΜΩ	0.015 + 0.001	0.020 + 0.001	0.040 + 0.001	0.060 + 0.001	0.0030 + 0.0004				
100 ΜΩ	0.300 + 0.010	0.800 + 0.010	0.800 + 0.010	0.800 + 0.010	0.1500 + 0.0002				

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$ \begin{array}{c} 1 \ \mu A^7 \ (typ) & 0.700 + 0.010 & 3.000 + 0.010 & 5.000 + 0.010 & 6.000 + 0.010 & 0.2000 + 0.002 \\ 1 \ \mu A^8 \ (typ) & 0.070 + 0.005 & 0.300 + 0.005 & 0.500 + 0.005 & 0.600 + 0.005 & 0.0020 + 0.001 \\ 10 \ \mu A \ (typ) & 0.007 + 0.002 & 0.030 + 0.002 & 0.050 + 0.002 & 0.060 + 0.002 & 0.0015 + 0.000 \\ 100 \ \mu A \ (typ) & 0.007 + 0.001 & 0.030 + 0.001 & 0.050 + 0.001 & 0.060 + 0.001 & 0.0015 + 0.000 \\ 1 \ m A & 0.007 + 0.003 & 0.030 + 0.005 & 0.050 + 0.005 & 0.060 + 0.005 & 0.0015 + 0.000 \\ 10 \ m A & 0.007 + 0.020 & 0.030 + 0.020 & 0.050 + 0.002 & 0.060 + 0.005 & 0.0015 + 0.000 \\ 100 \ m A & 0.010 + 0.004 & 0.030 + 0.005 & 0.050 + 0.002 & 0.060 + 0.002 & 0.0020 + 0.002 \\ 100 \ m A & 0.010 + 0.004 & 0.030 + 0.005 & 0.050 + 0.005 & 0.060 + 0.005 & 0.0020 + 0.000 \\ 1 \ A & 0.050 + 0.006 & 0.070 + 0.010 & 0.080 + 0.010 & 0.100 + 0.010 & 0.0050 + 0.001 \\ 3 \ A & 0.180 + 0.020 & 0.200 + 0.020 & 0.200 + 0.020 & 0.230 + 0.020 & 0.0050 + 0.001 \\ 10 \ A^9 & 0.050 + 0.010 & 0.120 + 0.010 & 0.120 + 0.010 & 0.150 + 0.010 & 0.0050 + 0.001 \\ \hline \textbf{Continuity} \\ 1 \ k \Omega & 0.002 + 0.030 & 0.008 + 0.030 & 0.010 + 0.030 & 0.012 + 0.030 & 0.0010 + 0.002 \\ \hline \textbf{True RMS AC voltage} \ ^{15.12} \ \textbf{Range: } 100 \ mV \ 1 \ V, \ 100 \ V \ and \ 750 \ V \\ 3 \ Hz - 5 \ Hz & 0.50 + 0.02 & 0.50 + 0.02 & 0.50 + 0.02 & 0.50 + 0.02 & 0.060 + 0.02 \\ 20 \ kHz - 50 \ kHz & 0.020 + 0.02 & 0.04 + 0.02 & 0.05 + 0.02 & 0.06 + 0.02 & 0.007 + 0.003 \\ 20 \ kHz - 50 \ kHz & 0.020 + 0.03 & 0.06 + 0.03 & 0.07 + 0.03 & 0.08 + 0.03 & 0.010 + 0.005 \\ 50 \ kHz - 100 \ kHz & 0.05 + 0.03 & 0.06 + 0.03 & 0.07 + 0.03 & 0.08 + 0.03 & 0.010 + 0.005 \\ 50 \ kHz - 100 \ kHz & 0.015 + 0.05 & 0.15 + 0.05 & 0.15 + 0.05 & 0.15 + 0.05 & 0.060 + 0.008 \\ 100 \ kHz - 300 \ kHz & 1.00 + 0.10 & 1.00 + 0.10 & 1.00 + 0.10 & 1.00 + 0.10 & 1.00 + 0.10 \\ \hline \textbf{Range: } 10 \ \mu B$									
$ \begin{array}{c} 10 \ \mu A \ (typ) & 0.007 + 0.002 & 0.030 + 0.002 & 0.050 + 0.002 & 0.060 + 0.002 & 0.0015 + 0.0001 \\ 100 \ \mu A \ (typ) & 0.007 + 0.001 & 0.030 + 0.001 & 0.050 + 0.001 & 0.060 + 0.001 & 0.0015 + 0.0001 \\ 1 \ mA & 0.007 + 0.003 & 0.030 + 0.005 & 0.050 + 0.005 & 0.060 + 0.005 & 0.0015 + 0.0001 \\ 10 \ mA & 0.007 + 0.020 & 0.030 + 0.020 & 0.050 + 0.002 & 0.060 + 0.002 & 0.0020 + 0.0021 \\ 100 \ mA & 0.010 + 0.004 & 0.030 + 0.005 & 0.050 + 0.005 & 0.060 + 0.005 & 0.0020 + 0.0002 \\ 100 \ mA & 0.050 + 0.006 & 0.070 + 0.010 & 0.080 + 0.010 & 0.100 + 0.010 & 0.0050 + 0.001 \\ 3 \ A & 0.180 + 0.020 & 0.200 + 0.020 & 0.200 + 0.020 & 0.230 + 0.020 & 0.0050 + 0.002 \\ 10 \ A^9 & 0.050 + 0.010 & 0.120 + 0.010 & 0.120 + 0.010 & 0.150 + 0.010 & 0.0050 + 0.001 \\ \hline \textbf{Continuity} \\ 1 \ k\Omega & 0.002 + 0.030 & 0.008 + 0.030 & 0.010 + 0.030 & 0.012 + 0.030 & 0.0010 + 0.0020 \\ \hline \textbf{Diode test}^{10} \\ 5 \ V & 0.002 + 0.030 & 0.008 + 0.030 & 0.010 + 0.030 & 0.012 + 0.030 & 0.0010 + 0.0020 \\ \hline \textbf{True RMS AC voltage} & \textbf{11.12} \\ \hline \textbf{Range: 100 mV 1 V, 10 V, 100 V and 750 V} \\ 3 \ Hz - 5 \ Hz & 0.50 + 0.02 & 0.50 + 0.02 & 0.50 + 0.02 & 0.50 + 0.02 & 0.008 + 0.003 \\ 10 \ Hz - 20 \ kHz & 0.02 + 0.02 & 0.04 + 0.02 & 0.05 + 0.02 & 0.06 + 0.02 & 0.007 + 0.003 \\ 20 \ kHz - 50 \ kHz & 0.05 + 0.03 & 0.06 + 0.03 & 0.07 + 0.03 & 0.08 + 0.03 & 0.010 + 0.005 \\ 50 \ kHz - 100 \ kHz & 0.15 + 0.05 & 0.15 + 0.05 & 0.15 + 0.05 & 0.15 + 0.05 & 0.060 + 0.002 \\ \hline \textbf{True RMS AC current}^{13.14} \\ \hline \end{tabular}$									
$ \begin{array}{c} 10 \ \mu A \ (typ) & 0.007 + 0.002 & 0.030 + 0.002 & 0.050 + 0.002 & 0.060 + 0.002 & 0.0015 + 0.0001 \\ 100 \ \mu A \ (typ) & 0.007 + 0.001 & 0.030 + 0.001 & 0.050 + 0.001 & 0.060 + 0.001 & 0.0015 + 0.0001 \\ 1 \ mA & 0.007 + 0.003 & 0.030 + 0.005 & 0.050 + 0.005 & 0.060 + 0.005 & 0.0015 + 0.0001 \\ 10 \ mA & 0.007 + 0.020 & 0.030 + 0.020 & 0.050 + 0.002 & 0.060 + 0.002 & 0.0020 + 0.0021 \\ 100 \ mA & 0.010 + 0.004 & 0.030 + 0.005 & 0.050 + 0.005 & 0.060 + 0.005 & 0.0020 + 0.0002 \\ 1 \ A & 0.050 + 0.006 & 0.070 + 0.010 & 0.080 + 0.010 & 0.100 + 0.010 & 0.0050 + 0.001 \\ 3 \ A & 0.180 + 0.020 & 0.200 + 0.020 & 0.200 + 0.020 & 0.230 + 0.020 & 0.0050 + 0.002 \\ 10 \ A^9 & 0.050 + 0.010 & 0.120 + 0.010 & 0.120 + 0.010 & 0.150 + 0.010 & 0.0050 + 0.001 \\ \hline \textbf{Continuity} \\ 1 \ k\Omega & 0.002 + 0.030 & 0.008 + 0.030 & 0.010 + 0.030 & 0.012 + 0.030 & 0.0010 + 0.0020 \\ \hline \textbf{Diode test}^{10} \\ \hline 5 \ V & 0.002 + 0.030 & 0.008 + 0.030 & 0.010 + 0.030 & 0.012 + 0.030 & 0.0010 + 0.0020 \\ \hline \textbf{True RMS AC voltage} & 11.12 \\ \hline \textbf{Range: } 100 \ mV \ 1 \ V, \ 100 \ V \ and \ 750 \ V \\ \hline 3 \ Hz - 5 \ Hz & 0.50 + 0.02 & 0.50 + 0.02 & 0.50 + 0.02 & 0.50 + 0.02 & 0.008 + 0.003 \\ 5 \ Hz - 10 \ Hz & 0.10 + 0.02 & 0.10 + 0.02 & 0.10 + 0.02 & 0.11 + 0.02 & 0.008 + 0.003 \\ 20 \ kHz - 50 \ kHz & 0.05 + 0.02 & 0.06 + 0.03 & 0.07 + 0.03 & 0.08 + 0.03 & 0.010 + 0.005 \\ 50 \ kHz - 100 \ kHz & 0.05 + 0.05 & 0.15 + 0.05 & 0.15 + 0.05 & 0.15 + 0.05 & 0.15 + 0.05 & 0.060 + 0.008 \\ 100 \ kHz - 300 \ kHz & 1.00 + 0.10 & 1.00 + 0.10 & 1.00 + 0.10 & 1.00 + 0.10 & 0.200 + 0.020 \\ \hline \textbf{True RMS AC current}^{13.14} \\ \hline \end{tabular}$									
1 mA									
10 mA									
100 mA									
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Continuity 1 kΩ $0.002 + 0.030$ $0.008 + 0.030$ $0.010 + 0.030$ $0.012 + 0.030$ $0.0010 + 0.0020$ Diode test ¹⁰ 5 V $0.002 + 0.030$ $0.008 + 0.030$ $0.010 + 0.030$ $0.012 + 0.030$ $0.0010 + 0.0020$ True RMS AC voltage ^{11,12} Range: 100 mV 1 V, 10 V, 100 V and 750 V 3 Hz-5 Hz $0.50 + 0.02$ $0.50 + 0.02$ $0.50 + 0.02$ $0.50 + 0.02$ $0.010 + 0.002$ $0.010 + 0.002$ $0.010 + 0.002$ $0.010 + 0.002$ $0.010 + 0.002$ $0.010 + 0.002$ $0.010 + 0.002$ $0.008 + 0.003$ $0.008 + 0.003$ $0.008 + 0.003$ $0.008 + 0.003$ $0.008 + 0.003$ $0.007 + 0.003$ $0.008 + 0.003$ $0.007 + 0.003$ $0.008 + 0.003$ $0.010 + 0.005$ $0.015 + 0.05$ $0.15 + 0.05$ $0.15 + 0.05$ $0.15 + 0.05$ $0.15 + 0.05$ $0.15 + 0.05$ $0.15 + 0.05$ $0.15 + 0.05$ $0.060 + 0.008$ True RMS AC current ^{13,14}									
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Diode test ¹⁰ 5 V									
5 V 0.002 + 0.030 0.008 + 0.030 0.010 + 0.030 0.012 + 0.030 0.0010 + 0.002 True RMS AC voltage 11.12 Range: 100 mV 1 V, 10 V, 100 V and 750 V 3 Hz-5 Hz 0.50 + 0.02 0.50 + 0.02 0.50 + 0.02 0.50 + 0.02 0.010 + 0.003 5 Hz-10 Hz 0.10 + 0.02 0.10 + 0.02 0.10 + 0.02 0.11 + 0.02 0.011 + 0.02 0.008 + 0.003 10 Hz-20 kHz 0.02 + 0.02 0.04 + 0.02 0.05 + 0.02 0.06 + 0.02 0.007 + 0.003 20 kHz-50 kHz ⁷ 0.05 + 0.03 0.06 + 0.03 0.07 + 0.03 0.08 + 0.03 0.010 + 0.005 50 kHz-100 kHz 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.060 + 0.008 100 kHz-300 kHz 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 0.200 + 0.020									
True RMS AC voltage ^{11,12} Range: 100 mV 1 V, 10 V, 100 V and 750 V 3 Hz-5 Hz									
Range: 100 mV 1 V, 10 V, 100 V and 750 V 3 Hz-5 Hz									
3 Hz-5 Hz									
3 Hz-5 Hz									
5 Hz-10 Hz 0.10 + 0.02 0.10 + 0.02 0.10 + 0.02 0.11 + 0.02 0.008 + 0.003 10 Hz-20 kHz 0.02 + 0.02 0.04 + 0.02 0.05 + 0.02 0.06 + 0.02 0.007 + 0.003 20 kHz-50 kHz ⁷ 0.05 + 0.03 0.06 + 0.03 0.07 + 0.03 0.08 + 0.03 0.010 + 0.005 50 kHz-100 kHz 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.060 + 0.008 100 kHz-300 kHz 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 0.200 + 0.020 True RMS AC current 13.14									
10 Hz-20 kHz 0.02 + 0.02 0.04 + 0.02 0.05 + 0.02 0.06 + 0.02 0.007 + 0.003 20 kHz-50 kHz ⁷ 0.05 + 0.03 0.06 + 0.03 0.07 + 0.03 0.08 + 0.03 0.010 + 0.005 50 kHz-100 kHz 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.060 + 0.008 100 kHz-300 kHz 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 0.200 + 0.020 True RMS AC current ^{13,14}									
20 kHz-50 kHz ⁷ 0.05 + 0.03 0.06 + 0.03 0.07 + 0.03 0.08 + 0.03 0.010 + 0.005 50 kHz-100 kHz 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.060 + 0.008 100 kHz-300 kHz 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 0.200 + 0.020 True RMS AC current ^{13,14}									
50 kHz-100 kHz 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.15 + 0.05 0.060 + 0.008 100 kHz-300 kHz 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 1.00 + 0.10 0.200 + 0.020 True RMS AC current ^{13,14}									
True RMS AC current ^{13,14}									
Pangay 10 uA									
Range: 10 µA									
3 Hz-5 kHz 0.35 + 0.04 0.40 + 0.04 0.40 + 0.04 0.055 + 0.006									
5 kHz-10 kHz (typ) 0.35 + 0.04 0.40 + 0.04 0.40 + 0.04 0.055 + 0.006									
Range: 100 μA, 1 mA, 10 mA, 100 mA, 1A									
3 Hz-5 kHz									
5 kHz-10 kHz (typ) 0.10 + 0.04 0.10 + 0.04 0.10 + 0.04 0.00 0.00 + 0.006									
Range: 3A									
_									
3 Hz-5 kHz 0.23 + 0.04 0.23 + 0.04 0.23 + 0.04 0.23 + 0.04 0.015 + 0.006									
5 kHz-10 kHz (typ) 0.23 + 0.04 0.23 + 0.04 0.23 + 0.04 0.23 + 0.04 0.030 + 0.006									
Range: 10 A									
3 Hz-5 kHz 0.10 + 0.04 0.15 + 0.04 0.15 + 0.04 0.15 + 0.04 0.015 + 0.006									
5 kHz-10 kHz (typ) 0.15 + 0.04 0.15 + 0.04 0.15 + 0.04 0.15 + 0.04 0.030 + 0.006									
Frequency ^{15,16}									
Range: 100 mV, 1 V, 10 V, 100 V and 750 V ¹⁷									
3 Hz-40 Hz 0.070 0.070 0.070 0.070 0.035									
40 Hz-100 Hz 0.030 0.030 0.030 0.035									
100 Hz-1 kHz 0.003 0.006 0.007 0.010 0.015									
1 kHz-300 kHz 0.002 0.005 0.007 0.009 0.015									
Square Wave ¹⁵ 0.001 0.004 0.006 0.008 0.015									
Additional frequency errors ±(% of reading) ¹⁵									
Aperture (resolution/range) 1 second (0.1 ppm) 0.1 second (1 ppm) 0.01 second (10 ppm)									
3 Hz-40 Hz 0 0.200 0.200									
40 Hz-100 Hz 0 0.060 0.200									
100 Hz-1 kHz 0 0.020 0.200									
1 kHz-300 kHz 0 0.004 0.030									
Square Wave ¹⁵ 0 0.000 0.000									

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Capacitance ¹⁶								
1.000 nF	0.50 + 0.50	0.50 + 0.50	0.50 + 0.50	0.50 + 0.50	0.05 + 0.05			
10.00 nF	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.05 + 0.01			
100.0 nF	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.05 + 0.01			
1.000 µF	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.05 + 0.01			
10.000 μF	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.05 + 0.01			
100.00 μF	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.40 + 0.10	0.05 + 0.01			
Temperature								
PT100 (DIN/ IEC 751) 18		Probe accuracy + 0.05 ℃						
5 kΩ Thermistor		Probe accuracy + 0.10 ℃						
DC current burden voltage at full scale								
DC current range		Burden voltage						
1 µA		< 0.11 V						
10 μA		< 0.11 V						
100 µA		< 0.11 V						
1 mA		< 0.11 V						
10 mA		< 0.11 V						
100 mA		< 0.11 V						
1 A		< 0.11 V						
3 A		< 0.33 V						
10 A		< 0.11 V						

- 1. These specifications are valid in the following conditions: warm up for 90 minutes, aperture of 10 or 100NPLC, and auto zero on, slow AC filter.
- 2. Except 1,000 DCV, 750 ACV, 3A/10A Current, and diode test have 0%, 20% overrange on all ranges.
- 3. In relation to the calibration standards.
- 4. Add this for each degree (ℂ) outside T_{CAL} ±5 ℂ.
- 5. For each additional volt exceeds ±500 V add 0.02 mV of error.
- 6. Specifications are for 4-wire ohms function or 2-wire ohms using math null for offset. Without math null, add 0.2Ω additional error in 2-wire ohms function.
- 7. Specifications are for DCI input \geq 0 and \leq +20% of range, and \leq 0 and \geq -20% of range.
- 8. Specifications are for DCI input in the range other than "7" stated.
- 9. The 10 A range is only available from a separate connector on the front panel.
- 10. Specifications are for the voltage measured at the input terminals. The 1 mA test current is typical. Variation in the current source will create some variation in the voltage drop across a diode junction.
- 11. Specifications are for:

When sine wave frequency \leq 100KHz, and range from 100 mV to 100 V, sine wave input > 0.3% of range and > 1 mVrms. If in 750V range, specifications are for sine wave input amplitude > 5% of range.

When sine wave frequency > 100 KHz and $\leq 300 \text{KHz}$, sine wave input > 0.8% of range and > 1 mVrms. For each additional volt over 300 Vrms add 1 mVrms of error.

- 12. Low-frequency performance: three filter settings are available: 3 Hz, 20 Hz, 200 Hz. Frequencies greater than these filter settings are specified with no additional errors.
- 13. Specifications are for sine wave input > 1% of range and > 9 μ Arms.
- 14. Unless stated otherwise, specifications are for sine wave input.
- 15. Square wave input specified for 10 Hz to 300 kHz for 1 second aperture. For shorter apertures, the minimum frequency requires > 2 cycles.
- 16. Specifications are for using Math Null zeroing. High dissipation factor capacitors may show different results than a single frequency measurement. Film capacitors usually have lower dissipation factors than other dielectrics.
- 17. Input > 100 mV. For 10 mV to 100 mV inputs, multiply % of reading error x10. Amplitude 10% to 120% of range except 14% to 100% for the 750 ACV range. Specifications are for 1-second gate time (7 digits).
- 18. Actual measurement range and probe errors will be limited by the selected probe. Probe accuracy adder includes all measurement and ITS-90 temperature conversion errors. PT100 Ro settable to $100\Omega \pm 5\Omega$ to remove the initial probe error.

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