

PRECISION NANO /MICRO VOLT ANALYZER (A.C./D.C.)

Introduction: Precision nano/micro volt meter range of analyzers are available in 8 different regular models apart from tailor made solutions virtually covering all industrial and research applications meeting all electrical, thermal, mechanical, and environmental specifications. These are first choice for online monitoring of low voltage signal (A.C./D.C.). These find applications in generation, transmission/distribution, defense, electrical/mechanical m/c testing instrument, industrial electronics, railway, and avionics and solid state physical application and many research and development activities. These precision instruments are compatible to any standard or hall/shunt/thermocouple sensor and display with very high degree of accuracy/repeatability/reliability and are available in different constructional material like ceramic-coated MS, poly carbonate cabinets.

Benefits: High input impedance/Low input biased current /higher accuracy.

- 5-1/2/6-1/2 digit display /Consistent performance over large temperature/humidity range (70°C and 80 % RH)
- Scaled directly in nano ampere with repeatable accuracy.
- Auto/manual zero offset without drift.
- Auto drift tracking
- RS-32 interface/high sample rate – 2000 sample/second.
- Feed back current measurement technique.



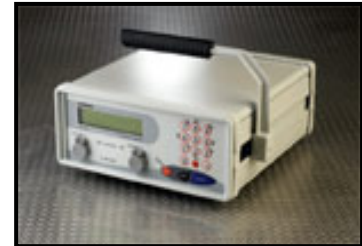
MNVM-00099.91

Nano/micro Voltmeter D.C.



M NVM- 00999.92

Nano/micro Voltmeter A.C.



nano voltmeter (dual)

Range 100.0 nano volt -200 volt

Range 1.0 nano volt -200 volt

Model	Range volt	Pulse/D.C./Pulse Frequency Range	Burdon	Accuracy Restricted to Resolution level	Resolution Quantified/ optional	Voltage source Volt optional As demanded	INTERFACE
MLCHVEM-9999990102	10.0/5.0 -999999mic.V Uolo 10.0 Volts	0-50K.Hz	< 100 micro-volts	99.99999%	1.0 micro-volt	015 VOLTS/001.0 A	RS-232/USB
MLCHVEM-9999990402	10.0/5.0 -999999mic.V Uolo 40.0 Volts	0-50 k.Hz	< 100 micro volts	99.99999%	1.0 micro volt	040 VOLTS/001.0 A	RS-232/USB
MLCHVEM-9999990101	10.0/5.0 -999999Nv 1.0 mV-10.0Volts	0-50K.Hz	< 100 micro-volts	99.99999%	10/20/50 nV	015 VOLTS/001.0 A	RS-232/USB
MLCHVEM-9999990401	10.0/5.0 -999999Nv 1.0 mV-40.0Volts	0-50 k.Hz	< 100 micro volts	99.99999%	10/20/50 nV	040 VOLTS/001.0 A	RS-232/USB
MLCHVEM-9999991002	05.0/1.0 -999999Nv 1.0 mV-99.9Volts	0-50k.Hz	< 100 micro volts	99.99999%	5/10 nV	100 VOLTS/001.0 A	RS-232/USB
MLCHVEM-9999992002	05.0/1.0 -999999Nv 1.0 mV-199Volts	0-50 k.Hz	< 100 micro volts	99.99999%	5/10 nV	200 VOLTS/001.0 A	RS-232/USB
MLCHVEM-9999992003	05.0/1.0 -999999Nv 1.0 mV-199Volts	0-50 k.Hz	< 100 micro volts	99.99999%	1/2/5 nV	200 VOLTS/010.0m A	RS-232/USB

General electrical/mechanical specifications:

Operating voltage: 220 volt A.C. (50-20,000 Hz)/ 12 volts D.C.

Measurement range:

voltage : 10^{-08} - 10^{-02} in multiple of x10 ,upto 100 volts least count- 10.0 nano-volt or as in data sheet upto micro range

Resistance: 10^{+8} - 10^{+02} ohm to 10^{+3} - 10^{-3} ohm in multiple of ten in four ranges least count- 5.0 milli-ohm

Source range:

voltage : 10^{-06} - 10^{-0} in multiple of x10 ,upto 40.0 volts least count- 1.0 micro volts or as in data sheet

Input capacitance: 10 nF

Response time: 1000 sample/sec

Burden: less than 100 micro volt/full scale current

Accuracy: 0.5/1.0/2.0 % reading

Repeatability: 100 of reading

Resolution: 1/10 of least significant bit

Linearity adjustment: upto 100 nano volt

Input imedence: ultra low(<1000 nano volt burdon),

Filtering: low pass

Offset: variable upto 10,000 nano volts (manual/auto)

CMMR: >80 db at 50-60 Hz

Isolation: > 100 giga ohm

Connector: BNC-9 pinx2 and BNC-25 pinx2

Size: 5X8X8 inches/rack mounted or portable

Interface: RS-232

Option : ADDITIONAL SOFTWARE to plot V/I OR ANY DESIRED INFERENTIAL PARAMETER.

THESE SPECIFICATIONS OR PART THERE OF MAY BE MODIFIED TO MEET ANY TAILOR MADE SOLUTIONS.

NOTES: The numeral after product code indicates the (ampere meter) range and last digit corresponds to size (5x5x8, 8x8x12)

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