**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 finds 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
- Feed back current measurement technique.

**Model Range**

<table>
<thead>
<tr>
<th>Model</th>
<th>Range</th>
<th>Pulse/D.C./Pulse Frequency</th>
<th>Burden</th>
<th>Accuracy</th>
<th>Resolution Quantified/ optional</th>
<th>Voltage source Volt optional</th>
<th>As demanded</th>
<th>INTERFACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLCHVEM-999999101</td>
<td>10.0/5.0 - 999999 microV volts 10.0 Volts</td>
<td>0-50kHz</td>
<td>&lt; 100 micro-volts</td>
<td>99.9999 %</td>
<td>1.0 micro-volt</td>
<td>015 VDCMS/001.0 A</td>
<td>RS-232/USB</td>
<td></td>
</tr>
<tr>
<td>MLCHVEM-9999990402</td>
<td>5.0/2.0 - 999999 microV volts 40.0 Volts</td>
<td>0-50kHz</td>
<td>&lt; 100 micro-volts</td>
<td>99.9999 %</td>
<td>1.0 micro-volt</td>
<td>040 VDCMS/001.0 A</td>
<td>RS-232/USB</td>
<td></td>
</tr>
<tr>
<td>MLCHVEM-9999990101</td>
<td>10.0/5.0 - 999999 microV volts 1.0 mV-10.0Volts</td>
<td>100kHz</td>
<td>&lt; 100 micro-volts</td>
<td>99.9999 %</td>
<td>10/20/50 nV</td>
<td>010 VDCMS/001.0 A</td>
<td>RS-232/USB</td>
<td></td>
</tr>
<tr>
<td>MLCHVEM-9999990401</td>
<td>10.0/5.0 - 999999 microV volts 1.0 mV-40.0 Volts</td>
<td>100kHz</td>
<td>&lt; 100 micro-volts</td>
<td>99.9999 %</td>
<td>10/20/50 nV</td>
<td>040 VDCMS/001.0 A</td>
<td>RS-232/USB</td>
<td></td>
</tr>
<tr>
<td>MLCHVEM-9999991002</td>
<td>05.0/1.0 - 999999 microV volts 1.0 mV-50nVolts</td>
<td>1MHz</td>
<td>&lt; 100 micro-volts</td>
<td>99.9999 %</td>
<td>5/10 nV</td>
<td>100 VDCMS/001.0 A</td>
<td>RS-232/USB</td>
<td></td>
</tr>
<tr>
<td>MLCHVEM-9999992002</td>
<td>05.0/1.0 - 999999 microV volts 1.0 mV-199 Volts</td>
<td>5MHz</td>
<td>&lt; 100 micro-volts</td>
<td>99.9999 %</td>
<td>5/10 nV</td>
<td>200 VDCMS/001.0 A</td>
<td>RS-232/USB</td>
<td></td>
</tr>
<tr>
<td>MLCHVEM-9999992003</td>
<td>05.0/1.0 - 999999 microV volts 1.0 mV-199 Volts</td>
<td>5MHz</td>
<td>&lt; 100 micro-volts</td>
<td>99.9999 %</td>
<td>1/2/5 nV</td>
<td>200 VDCMS/010.0mA</td>
<td>RS-232/USB</td>
<td></td>
</tr>
</tbody>
</table>

**General Electrical/mechanical specifications:**
- Operating voltage: 220 volt A.C. (50-20,000 Hz)/ 12 volts D.C.
- Measurement range:
  - Voltage: 10^{-4}-10^{-2} in multiple of x10 , upto 100 volts least count- 10.0 nano-volt or as in data sheet upto micro range
  - Resistance: 10^4-10^2+8 ohm to 10^{-3} ohm, in multiple of ten in four ranges least count- 5.0 mili-ohm
- Source range:
  - Voltage: 10^{-4}-10^{-6} 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 impedance: ultra low(<1000 nano volt burden), Filtering: low pass
- Offset: variable upto 10.000 nano volts (manual/auto)
- CMRR: >80 db at 50-60 Hz
- Isolation: > 100 giga ohm
- Connector: BNC-9 pinx2 and BNC-25 pinn2
- Size: 5X8X8 inches/rack mounted or portable
- Interface: RS-232
- Option: ADDITIONAL SOFTWARE to plot V/I OR ANY DESIRED INFERENTIAL PARAMETER.

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