

## METRAVI - 33N: GRAPHICAL MULTIMETERS



This data logging graphical multimeter is a combination of a 3-3/4 Digits True RMS Multimeter with 200kHz Digital Storage Oscilloscope that can store 15 waveforms or measurements. It has a built in RS-232 Interface for PC connectivity. It can do logic analysis. It has self testing facility and can measure Temperature, Humidity and high current measurement by external optional adaptors.

In the oscilloscope mode it has both autosetting and manual setting in Time / Div, Volt / Div, mA / Div and A / Div. In the Volt / Div mode it can be varied from 750mV to 500V in 17 Div., in the current / division mode it can be varied from 75mA to 300mA in 4 division and 7.5A to 15A in 2 Division and in seconds / div mode it can be varied from 5microS / div to 1.3 Secs. / Div. It has a sampling rate of 1 million samples / second and a glitch capture of 500ns min. It is rechargeable battery operated and comes along with battery charger / AC mains adaptor.

In the Digital Multimeter mode it can be used to measure DC Voltage, AC Voltage, AC Current, DC Current, Resistance, Frequency, trigger is adjustable every 5%, it can test TTL, 3V C MOS and 5V C MOS. It provides a TTL output of 10Hz to 20KHz adjustable. The period and pulse width can also be measured along with duty cycle from 1 - 100%, diode testing and continuity testing. It comes complete with testing leads, RS - 232 Interface cable and software, rechargeable battery and Battery charger. More details as per leaflet enclosed.

### Specifications

Display: 128 x 64 pixel graphic LCD (4000 count digital)

MULTIMETER SPECS	Range	Accuracy (%rdg + digits)	Resolution
DC Voltage	400mV, 4, 40, 400, 1,000V	± (0.75% + 10d)	0.1mV
AC Voltage	400mV, 4, 40, 400, 700V	± (1.0% + 10d)	0.1mV
DC Current	400mA, 20A	± (1.2% + 10d)	1uA
AC Current	400mA, 20A	± (1.5% + 10d)	1uA
Resistance	400, 4K, 40K, 400K, 4M, 40MΩ	± (1.0% + 5d) upto 4MΩ	0.1Ω
Capacitance	4, 40, 400nF, 4uF, 400uF, 4mF	± (0.1% + 5d)	1pH
Frequency	1kHz, 100kHz		1Hz
Trigger Adjustable	every 5% (-95% upto + 95%)		
Logic TTL, CMOS (3V), CMOS (5V)	-		
TTL Output	10Hz - 20kHz (adjustable)	± (1.2% + 5d)	1Hz
Period / Pulse Width	4msec, 1 second	± (3.0% + 5d)	1usec
Duty Cycle	1-100%	± (3.0% + 5d)	0.1%
Diode	yes		
Continuity Test	< 40 Ω		
Temperature	using optional temperature adaptor 0 to 2000°F (0° to 1370°C)		

### OSCILLOSCOPE SPECS

Details	
Autosetting & Manual Setting	Time / Div. Volt / Div. mA / Div. A / Div
Number of channels	one

Bandwidth	DC to 200kHz
Volts / Division	750mV to 500V ( 17 div)
Currents / Divisions	75mA to 300mA (4 div), 7.5A to 15A (2 Div)
Seconds / Divisions	5 microseconds to 1.3 seconds
Sample Rate	1 million samples / second
Glitch Capture	500n seconds minimum
Power	six AA batteries ( 6 hours) or optional AC adaptor or rechargeable batteries
Input Impedance	10 Megaohm
Dimensions	92(w) x 192(l) x 55(d) m/m
Net Weight	3.6" (w) x 7.6" (l) x 2.16" inch / 450g (1 lbs)
W/o Battery	
Accessories	Rs 232 software package and cable NiCad Battery Pack AC power adapter / internal charger