

**AUTO RANGING RF MILLIVOLT METER**
**Auto Ranging RF Millivolt Meter 3145**

RF Milli voltmeter 3145 has been designed to provide accurate RF level measurements from 20 kHz to 1 GHz. It has useful response from 10 kHz to 1.5 GHz and measures RF voltages from 1mV to 3V F.S. in eight ranges. Linear dB scale from -60 to +23 dBm complements volts scale. It is suitable for RF voltage measurements of broad band amplifiers, oscillators & filters with minimum measuring errors as low capacitive and high resistive probe minimize de-tuning and unwanted phase shifts in feed back networks. It can be operated in auto mode for unknown voltages or the measurement range can be selected manually.



- Frequency Range 20 KHz to 1GHz
- Useful readings upto 1.5 GHz
- True RMS or average response
- Measurement range 1mV to 3V (upto 300V with 100: 1 divider)
- High sensitivity auto ranging or manual operation
- Mains or external DC operation
- Compact and light weight

Parameters	
Frequency Range	20 kHz to 1GHz
Voltage Ranges	1 mV to 3 V FS, Selectable
Display	Analog Meter
Resolution	0.5 dBm
db scale	- 0.5 dBm
mv scale	- 2% of FS measured in Top Black scale 3.3% of FS measured in Bottom Black scale
Range Selection	Auto or Manual
Voltage Accuracy	Basic Accuracy + Frequency Response (<1V rms input) with Tee adaptor and 50 ohms load
Basic Accuracy	+ 2% FS at 25 °C at 100 MHz
Frequency Response	+ 2% FS (200 kHz to 200 MHz) + 5% FS (50 kHz to 500 MHz) + 11% FS (20 KHz to 1 GHz)
Temperature Coefficient	+0.2% FS per °C
Input Impedance	> 100 KΩ in parallel with 2.5 pf (typical)
Logarithmic Range	+ 10 to -30 dBm 50 Ohms in a single four decade dB scale.
Pen Recorder Output	Available from rear panel programme socket. FS equals 1 V nominal Output Impedance 2 KΩ
Remote Programming	Range selected by BCD code, TTL levels. negative logic.
<b>General</b>	
Power requirement	230V AC + 10%
Frequency	50Hz + 10%
External DC	±15 V to ± 30 V, 200mA via rear panel connector
Operating Temperature:	0 to 55°C
Dimensions (Approx.) (HxWxD)	95 x 235 x 275 mm
Weight (Approx.)	3.3 Kg.
Accessories (supplied)	50 Ohms Tee Connector and 50 Ohms Termination, Mains lead, Probe earthing Clip, Operating Manual
Accessories	100 : 1 Divider, BNC to Probe Adaptor, 75 Ohms Tee
Accessories (Optional)	Connector, 75 Ohms Termination

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