

HIGH VOLTAGE DC AND AC METER RD-140



High voltage DC and AC meter RD-140 is intended for measuring of variable sinusoidal voltage with frequency 50 Hz from 10 to 100 kV and direct-current voltage from 10 to 140 kV.

RD-140 provides a measurement with high accuracy:

- effective value of AC voltage, 50 Hz;
- average value of DC voltage.

RD-140 can be used in test high-voltage laboratories of electrical and energy profiles, as well as research institutions.

Execution of the product complies with GOST 17512-82, climatic category UHL 4.2 according to GOST 15150-69 and group 2 devices in accordance with GOST 22261-82.

MAIN TECHNICAL CHARACTERISTICS:

Measuring range of DC voltage, kV	from 10 to 140
Measuring range AC voltage (rms), kV	from 10 to 100
Frequency range when measuring AC voltage, Hz	from 47,5 to 52,5
Input impedance of the high voltage block (VB) RD140-BB DC, MOm	1600
Input impedance of the VB RD140-BW on alternating current frequency of 50 Hz, MOm, minimum	200
Limits of permissible relative error in the measurement of DC voltage, %	±0,9
Limits of permissible relative error in the measurement of AC voltage, %	±0,7
Power supply of VB and indicating module (MI) is realizing by the built-in Ni-MH rechargeable AA-size batteries 1,2 V voltage and a capacity of 1,8 A*h: <ul style="list-style-type: none"> • supply voltage, V • duration of continuous operation without recharging, hour, minimum 	5±0,2 8
The range of the radio channel, m, not less	5
Continuous operation of RD-140 at the maximum input voltage, hour, no more	1
Continuous operation of RD-140 with an input voltage to 75 kV, hour, no more	8
Operation mode setup time after power, min	1
Dimensions, mm: <ul style="list-style-type: none"> • RD140 - VB • RD140 - IM 	diameter 280x880 95x190x40
Weight, kg, not more: <ul style="list-style-type: none"> • RD140 - VB • RD140 - IM 	11 0,5
Lifetime, years, not less	10