

ES9020 Intelligent lightning protection component (SPD) tester



I. Product Introduction


ES9020 intelligent lightning protection component tester, also known as lightning protection component tester, SPD field tester, used for arrester, lightning protector, surge protector, varistor, cermet discharge tube, direct space detonator and other performance test instrument. The instrument adopts the offline function of the charging function to overcome the shortcomings of inconvenient on-site operation of traditional products to be plugged in. The voltage output 2000V is more widely used, uses high-voltage short-circuit protection, automatic discharge function, and the meter is reliable, safe and durable. At the same time with insulation resistance test function, the use of luxury large-screen display, data storage, data review, compliance judgment, automatic shutdown, USB data upload and other functions. The machine is beautiful and upscale, has a wide range, high resolution, convenient operation, easy to carry, accurate, reliable, stable performance, strong anti-interference ability.

ES9020 also has a shockproof, dustproof, moisture-proof structure to adapt to harsh working environments. It is a commonly used and indispensable instrument for meteorological lightning protection, electricity, post and telecommunications, communications, electromechanical installation and maintenance, and industrial enterprises that use electricity as industrial power or energy. . It is suitable for measuring performance parameters of various arresters and surge protectors.

The ES9020 smart lightning protection component tester consists of medium and large-scale integrated circuits. The output power of the meter is large, the initial operating voltage measurement range is 0-2000V, the leakage current measurement range is 0.1~199.9uA, the insulation resistance is 0-1000MΩ, the repeatability is good, and one-key measurement is convenient and quick.

II. Technical Specification

Function	Varistor (MOV) initial voltage leakage current test, discharge tube (GDT) discharge voltage test, insulation resistance test
Base condition	23℃±5℃，below 75%rh
Voltage measurement(V)	0~2000V Accuracy±2%rdg±3dgt
Leakage current measurement(uA)	0.1uA～199.9uA Accuracy±3%rdg±5dgt
DC voltage resolution	1V
Leakage current resolution	0.1uA

Insulation resistance	0~1000MΩ
Test settling time	≤3s
Discharge rate of discharge tube	(100±8) V/s
Power	7.2V Large capacity rechargeable battery
Backlight	Yes, suitable for use in dim places
USB data transmission	Have
Display mode	5-inch color TFT LCD
LCD display size	108mm×65mm
Instrument size	240mm (L)×188mm (W)×85mm (H)
Test line	Test line red 1m, black 1m
Data storage	500groups
Data review	Data review function: “MR” symbol display
Overflow display	Over-range overflow function: "OL" symbol display
Judging function	Measurement exceeds the setting range
Power consumption	Standby:150mA Max
	Measure: 880mA Max
Weight	1230g(including)
Battery voltage	Insufficient battery voltage, low battery symbol “  ” display
Automatic shut-down	Instrument will automatic shut-down after 15 minutes no operation
Insulation resistance	≥50M Ω (1000V)
Pressure resistance	AC3kV/50Hz 1min
Working temperature and humidity	−10℃~+50℃<85%RH
Working temperature and humidity	−15℃~+55℃<90%RH
Suitable for Safety Regulations	IEC61010-1、IEC1010-2-31、IEC61557-1,5、IEC60529(IP54)、pollution grade 2、CAT III 300V

III. Accessories

Instrument	1PC
High voltage test line	2PCS (red, black each 1)
Battery	1.2V Rechargeable Battery 6 section
charger	1PC
USB data line	1PC
CD	1PC
Manual, certificate	1SET
Instrument box	1PC



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