



InteliSENS® Spark Testers



ST-AC Spark Tester

SPARK TESTER

Proton Products InteliSENS® ST-AC series mains frequency spark testers meet the international standards stipulated for wire insulation testing UL1581, UL2556 and EC62230. The Proton Products mains frequency AC Spark Testers are designed for in-line testing of cables to detect pinhole and bare patch insulation faults. They accommodate cables up to 130 mm in diameter and outputs an AC frequency, user-adjustable EHT test voltage of up to 30 kV AC (rms). Typical applications are for the insulation testing of power and automotive cables. This unit offers a broad selection of built-in and optional industry-standard communications interfaces for connection to production controllers. The InteliSENS® ST-AC Series electronics are housed in a rugged IP54 sealed stainless steel case, ensuring reliability and long operational life.



FEATURES

- 150mm maximum Cable diameter
- 300mm long bead chain electrode
- 30kV maximum test voltage
- mains test frequency.
- UL1581,UL2556 and EN62230-Compliant testing
- Distinguishes and separately counts pinhole and patch flaws.
- Ozone extraction port



SPECIFICATIONS

Model	ST2540-ACMW	ST2560-AC	ST25100-AC	ST25130-AC	ST30100-AC	ST30150-AC
Minimum Diameter	40 mm	60 mm	100 mm	130 mm	100 mm	130 mm
Electrode length			300 mm			
Electrode type			5mm bead chain			
EHT test output voltage	25 kV(rms)	25 kV(rms)	30 kV(rms)			
EHT test output voltage resolution	0.1 kV(rms)	0.1 kV(rms)	0.1 kV(rms)	0.1 kV(rms)		
EHT test output voltage accuracy	3 %	3 %	3 %	3 %		
EHT test output capacitive current (at 25kV)	9 mA(rms)	9 mA(rms)	9 mA(rms)	20 mA(rms)		
EHT test output resistive current (at 25kV)	4 mA(rms)	4 mA(rms)	4 mA(rms)	9.8 mA(rms)		
EHT test output continuous short circuit current	10 mA(rms)	10 mA(rms)	10 mA(rms)	10 mA(rms)		
Power Supply Voltage			100-240 VAC(rms)			
Power supply frequency			50-60 Hz			
Power consumption			400 W			
Enable Input			Safety interlock input to enable the EHT test output voltage			
2x Logic Input	Fixed Function		1) Not assigned, 2) Reset current length and all fault counts and positions			
3x Relay output	User configurable function		1) 24V, 2) High voltage indication, 3) Pin-Hole detected, 4) Bare-Patch detected, 5)Pin-hole or Bare-Patch			
Analogue input			0-10 Vc; controls the EHT test output voltage, user scalable			
Analogue output			0-10 Vc; proportional to the measured EHT test output voltage, user scalable			
Line Speed input			50 V maximum pulses, 250 KHz maximum frequency, user scalable			

Standard communication interfaces

CAN-bus
Ethernet
RS-232
RS-422
RS-485

CANBUS
RS232

RS422
RS485



Option Communication Interfaces

Profibus
Profinet
Ethernet IP
DeviceNet
WiFi



DeviceNet™

**INDUSTRIAL
ETHERNET** IP



ACCESSORIES

ST Calibrator



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