



PROTON
PRODUCTS

SPARK TESTERS



High-frequency spark testers and indicator/control unit

ST-04-10 SPARK TESTER

Proton high frequency ST Series spark testers meet the international standards required for cable insulation high voltage testing. High frequency spark testing allows a greatly increased speed capability compared with mains frequency testing, especially in the case of UL1581 where the 9-cycle requirement makes the electrode length required for mains frequency testing impractical. Compared with mains frequency testing, high frequency testing generates an ionization cloud at a relatively low voltage. This ensures complete coverage of the cable surface. The gauge head electronics are housed in a rugged IP65 sealed case that is manufactured from stainless steel. This ensures reliability and long life. The ST-IND indicator is a separate unit designed for rack mounting. It includes the ability to remotely set all functions from a device such as a PC or PLC.



SPECIFICATIONS

Max. test voltage	12 kV or 6kV
Max. speed to meet BS5099 / UL1581	1000 m/min
Cable diameter range	0.4 - 10 mm
Output frequency	3 kHz
Resistive current	4 mA
Capacitive current	15 mA
Remote input voltage for 6 kV	0 - 6 V = 0 - 6 kV
Remote input voltage for 12 kV	0 - 10 V = 0 - 12 kV
Electrode length	60 mm
Temperature range	+5°C to +45°C
Gauge head electronics seal	IP65

BENEFITS

- High frequency testing: 3 kHz
- Conforms to standards BS5009, UL1581
- High speed performance - 1000 m/min
- IP65 seal for electronics housing
- Low cost of investment
- Input / Output for remote operation

ST-IND INDICATOR UNIT

Resolution	0.1 kV
Accuracy	1000 m/min
Voltage	0.4 - 10 mm
Current	3 kHz
Frequency	4 mA
Power	15 mA
Protection	0 - 6 V = 0 - 6 kV
Ambient temperature range	0 - 10 V = 0 - 12 kV
Mounting	60 mm



Inputs

- HV Enable
- Remote control of HV
- Set HV amplitude
- Auto/Manual fault reset
- Reset fault

Logic outputs

- Spark Fault Relay
- Bare Patch Relay

CONTACT

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