

Spark Testers

ST Series

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.



Data Sheet

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 +40°C
Gauge head electronics seal	IP65

BENEFITS

- High frequency testing : 3 kHz
- Conforms to standards BS5099 and UL1581
- High speed performance - 1000 m/min
- Rugged, compact and durable
- IP65 seal for electronics housing
- Low cost of investment
- Input / Output for remote operation

ST-IND Indicator Unit

SPECIFICATIONS

Resolution	0.1 kV
Accuracy	4% + .01 kV
Voltage	85 to 264 VAC rms
Current	2 A rms minimum
Frequency	47 to 65 Hz
Power	90 W maximum
Protection	IP50
Ambient temperature range	0°C to +40°C
Mounting	19-inch rack 2U high panel space



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 information

Head Office

Proton Products Int. Ltd
10, Aylesbury End
Beaconsfield, Bucks.
HP9 1LW, ENGLAND

Europe

Proton Products Europe N.V.
Nieuwbaan 81, B-1785,
Merchtem-Peizegem, BELGIUM.
Tel +32 (0) 52 466 311
Fax: +32 (0) 52 466 313

USA

Weber & Scher, P.O. Box 366,
1231 US Highway 22 East,
Lebanon Borough, New Jersey, USA.
Tel +1 (908) 236 8484,
Fax +1 (908) 236 7001

Asia

Proton Products Chengdu Ltd
126 East 2nd section, 1st Ring Rd.
Chengdu, 610051, CHINA.
Tel +86 288 439 3112,
Fax +86 288 437 0880

Website: www.protonproducts.com Email: contact@protonproducts.com

A PDF version of this datasheet is available from our website.