

SPARK 2000 / 6000

Safety with spark testers for every cable production

At the extrusion of wires and cables, their insulation is inspected by spark testers (high voltage spark testers) and possible insulation faults are detected and documented at an early stage. For the testing, the dry cable runs through the sturdy electrode of the spark tester where the cable insulation is exposed to the selected test voltage and faults in the insulation are reliably detected.

According to the various applications, SIKORA offers Direct Current (DC), High-Frequency (HF) and Alternating Current (AC) spark testers.

Innovation: Integrated self-testing and calibration system

According to European standards, openly operated measuring and testing equipment has to be checked regularly. Accordingly, spark testers are tested with regard to the high voltage, short-circuit current and function (sensitivity). A unique feature of the SIKORA SPARK 6000 HF is the optionally integrated 3-step self-test and calibration system. This includes:

- Integrated high voltage test
- Integrated short-circuit current test
- Integrated function / sensitivity test
- Capacitive load
- Corona level

This test is documented, saved in a log-file and can be recalled at any time. For applications where the integrated self-test and calibration system is not necessary, SIKORA offers the SPARK 2000 UL and further devices of the SPARK 2000 series.

SPARK 2000

The SPARK 2020 DC is a direct-current spark tester, designed for the testing of telephone wires, data cables and mini-coax cables with foam insulation, automotive cables and building wires up to 20 mm.

The SPARK 2000 BS is an alternating-current spark tester for jacketing and insulating lines available in 8 models, covering a diameter range from 1 to 200 mm.

The SPARK 2030 UL is a high-frequency high voltage spark tester, developed for the detection of faults in the insulation of cables up to 30 mm.

Model	SPARK 2000 DC	SPARK 2000 BS	SPARK 2000 UL
Product Diameter	1.0-20 mm	1.0-200 mm	Up to 30 mm
Test Voltage	1.0-7.5 kV	1.6-25 kV (30, 35 kV optional)	0.8-15 kV (RMS)
Interfaces	- Analog setting of the test voltage 0.5 to 10 V = 1.0 to 7,5 kV - Analog output of the actual test voltage 0.5 to 10 V = 1.0 to 7,5 kV - Profibus-DP* - RS485 - RS232 diagnostic interface	RS485, RS232, Profibus-DP*, Electrically isolated contacts, analog input and output test voltage	RS485, RS232, Profibus-DP*, Electrically isolated contacts, analog input and output test voltage

Power Supply	115/230 V AC \pm 10 %, 50/60 Hz	100 - 240 V AC \pm 10 %, 50/60 Hz	115/230 V AC \pm 10 %, 50/60 Hz
			*option

SPARK 6000

The SPARK 6030 HF is a high-frequency high voltage spark tester, developed for the detection of faults in the insulation of cables. The system reliably distinguishes between punctual faults (pin holes) and bare patches.

The sturdy electrode and the electronic box of the SPARK 6030 HF form one integral unit. Directly integrated into the device is a display, visualizing the selected test voltage, the capacitive load and number of high voltage breakdowns. The display is combined with a control panel for entering the test voltage. For production lines without a line computer, SIKORA recommends the use of the SPARK 6030 HF with the processor-controlled display/control devices REMOTE 2000.

	SPARK 6030 HF	SPARK 6020 DC
Product Diameter	Up to 30 mm	1.0 - 20 mm
Test Voltage	0.5-15 kV (RMS)	1 - 20 kV
Interfaces	RS485, RS232, W-LAN (Wi-Fi) (option), Profibus-DP (option), Electrically isolated contacts, analog/digital input and output	RS485, RS232, W-LAN (Wi-Fi) (option), Profibus-DP (option), Electrically isolated contacts, analog/digital input and output
Power Supply	100 - 240 V AC \pm 10 %, 50/60 Hz	100 - 240 V AC \pm 10 %, 50/60 Hz

Your Benefits

- Detection of pin holes and bare patches in the insulation of wires and cables
- Integrated display with keypad (SPARK 6030 HF only)
- Processor controlled test-voltage
- Integrated 3-step self-test and calibration system (option, SPARK 6030 HF only)
- Fulfills all important test and safety standards (BS, VDE, CENELEC, UL, AS, CS, etc.)
- Meets safety requirements according to DIN / VDE 0800, IEC 479-1
- SPARK App