

DST 28A

ZUMBACH's new DST 28A series are direct current spark testers designed to detect faults in insulation or sheathing layers of electrical cables. It detects faults in the walls of tubes, pipes, corrugated tubes or similar products with insulating material. The spark testers are in compliance with the IEC 62230, UL 1581, UL 2556 standards and further standards.

Features

- Controlled, adjustable output voltage from 1 to 28 kV DC
- Beads chains electrode for cable testing according to UL 1581, ring electrode with bronze or carbon brushes for tubes, flat electrode for flat cable.
- Pin hole and bare patch detection
- Interfaces:
 - RS: RS-232/-422/-485: for USYS 20, 200, USYS IPC 1/2 or Host
 - DP: PROFIBUS DP
 - EN: ETHERNET
 - PN: PROFINET IO
 - PF: Potential free digital/analog inputs/outputs

Operating Modes

Extrusion

- Captures each insulation fault and sends an alarm message via interface or activation of a potential free contact "Alarm"
- After the fault travels out of the electrode, the sparker resumes operation and the test voltage recovers to the preset value

Rewinding

- Fault count and switch off of the test voltage after fault detection
- Alarm message sent via interface or activation of the potential free contact "Alarm"
- A test voltage off-on sequence reactivates the test voltage and deactivates the potential free contact "Alarm"

Main Data

Output voltage	1...28 kV DC
Max. product diameter	Bead chain electrodes: 30 mm (1.18 in.) Ring electrodes: 40 mm (1.57 in.) or: 40...70 mm (1.57...2.75 in.) Flat electrode: 60 x 30 mm (2.36 x 1.18 in.)
Polarity of high voltage output	Negative
Accuracy of voltage calibration	Better than 4% at 5 and 28 kV, with 100 M Ω load resistance (accuracy limit +/- 5% of the indicated value given in IEC 62230)
Power supply	Universal input 85...264 VAC, 45...63 Hz
Dimensions without BAE 2 SP (width x depth x height)	355 x 400 x 385 mm (14 x 15.7 x 15.2 in.)

- Technical specifications are subject to change without notice



BAE 2 SP (option)

System Components

Electrode unit

This unit comprises the electrode, a regulated high voltage generator, a fault detector and one of the following interfaces: RS, PROFIBUS DP/PROFINET IO, ETHERNET or the potential free digital/analog input/output, as well as the connector for the control and display unit BAE 2 SP.

Control and display unit BAE 2 SP (option)

This unit allows the manual control of the electrode unit. The BAE 2 SP is fixed on the electrode unit or used separately. A pivoting fixation device allows flexible positioning of the unit. For applications where the spark tester is controlled via an interface, the BAE 2 SP can be used as a local display.