

# AST H 15A

ZUMBACH's new AST H 15A series are alternating current, high frequency spark testers designed to detect faults in insulation or sheathing layers of cables. The AST H 15A models meet all requirements for spark testers that are demanded today for such applications.

The spark testers are in compliance with the following standards: IEC 62230, UL 1581, UL 2556 and further standards.

## Outstanding Features

- Controlled, adjustable output voltage from 0.5 to 15 kV AC
- Bead chain electrodes for reliable, non destructive testing
- Pin hole and bare patch detection
- Interfaces:
  - RS: RS-232/-422/-485: for USYS 20, 200, USYS IPC 1/2/8 or Host
  - DP: PROFIBUS DP
  - EN: ETHERNET
  - PN: PROFINET IO
  - PF: Potential free digital/analogue 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

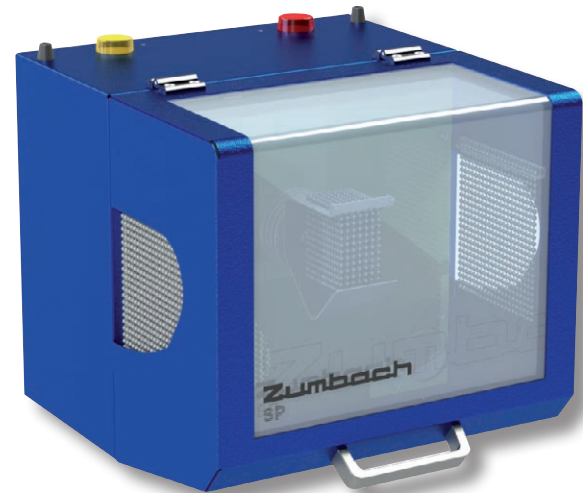
### Rewinding

- 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	0.5...15 kV AC
Max. product diameter	30 mm (1.18 in.)
Frequency	2.5...4 kHz
Accuracy of voltage calibration	Better than 4% at 4 and 15 kV, with 100 MΩ load resistance (accuracy limit +/- 5% of the indicated value given in IEC 62230)
Power supply	Universal input 85...264VAC, 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



## 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 by means of a mounting stand. 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.

