

VSS 500N10

VOLTAGE SURGE SIMULATOR



FOR TESTS ACCORDING TO ...

- › EN 60065
- › EN 60950-1
- › IEC 60065
- › IEC 60950-1
- › UL 6500

VOLTAGE SURGE SIMULATION

As per safety test requirements the insulation between accessible parts or parts connected to them and hazardous live parts shall be able to withstand surges due to transients, caused e.g. by lightning events and entering the apparatus through the antenna terminal. The voltage surge simulator VSS 500N10 generates high voltage transients as required by EN/IEC 60065 and UL 6500 standards for safety tests on audio, video and similar electronic apparatus.

Such test is also required by EN/IEC 60950-1 for safety testing of Information Technology equipment.

HIGHLIGHTS

- › Surge voltage up to 10kV
- › Generator designed to comply with IEC 60065
- › Generator designed to comply with UL 6500
- › Interlock
- › Warning lamp control
- › Manual operation
- › USB (optical link) and GPIB interface

APPLICATION AREAS

-  COMPONENTS
-  INDUSTRY
-  RESIDENTIAL
-  BROADCAST
-  TELECOM

TECHNICAL DETAILS

VOLTAGE SURGE SIMULATOR, PULSE AS PER IEC 60065

| | |
|-------------------|-----------------------|
| Voltage (o.c.) | 500V - 10,000V ± 10% |
| Surge capacitor | 1nF |
| Series resistor | 1,000ohm |
| Parallel resistor | >15Mohm |
| Polarity | Positive |
| Event counter | 1 - 30,000 or endless |

TRIGGER

| | |
|-----------------------|------------------------------------|
| Automatic | Automatic pulse release |
| Manual | Single pulse release |
| External | External pulse release |
| CRO trigger | 5V trigger signal for oscilloscope |
| Pulse repetition rate | max. 1Hz (1s - 999s) |

OUTPUT

| | |
|--------|---------------------------------|
| Direct | Via HV connector; Zi = 1,000ohm |
|--------|---------------------------------|

TEST ROUTINES

| | |
|--------------------|---|
| Quick Start | Parameters online adjustable; easy-to-use and fast |
| User Test routines | Change Polarity after n pulses Change voltage after n pulses |
| Service | Service, set-up, self test |

INTERFACE

| | |
|--------------------|---|
| Optical interface | Opto link, 3 m cable USB A connector |
| Parallel interface | IEEE 488, addresses 1 - 30 |

SAFETY

| | |
|----------------|-------------------------|
| Safety circuit | Control input (24Vdc) |
| Warning lamp | Floating output contact |

GENERAL DATA

| | |
|--------------------|-------------------------------------|
| Dimensions, weight | 19"/3HU, approx. 12kg |
| Supply voltage | 115/230V +10/-15% |
| Fuses | 2 x 2AT (230V) or 2 x 4AT (115V) |

COMPETENCE WHEREVER YOU ARE



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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.