

EMC PARTNER PRODUCTS

# LIGHTNING INDUCED TRANSIENT SUSCEPTIBILITY TESTING



# AVI-LV3

Level 3

The first system to fully integrate all waveforms from MIL-STD-461G and RTCA DO-160. Combined with a single coupler where the EUT cable passes only once, AVI-LV3 is a compact and resourceful solution to indirect lightning testing needs up to level 3 / internal test levels.



## Features

- › PIN injection testing
- › Cable bundle testing
- › Semiconductor high voltage switching
- › Extreme impulse repeatability
- › Touch panel with intuitive firmware

## Benefits

- › High system reliability
- › Fastest setup and testing
- › Fast return on investment
- › Use for civilian and defence applications
- › Compact test solution



### Waveform 1 (6.4/69µs)

Level 3 / Internal

#### Current Impulse

- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke



### Waveform 2 (0.1 and 0.3/6.4µs)

Level 3 / Internal

#### Voltage Impulse

- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke



### Waveform 3 (1MHz & 10MHz)

Level 3 / Internal

#### Voltage & Current Impulse

- › PIN injection
- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke
- › Cable Bundle Multiple Burst



### Waveform 4 (6.4/69µs)

Level 3 / Internal

#### Voltage Impulse

- › PIN Injection
- › Ground Injection Single Stroke
- › Ground Injection Multiple Stroke



### Waveform 5A (40/120µs)

Level 3 / Internal

#### Current Impulse

- › PIN Injection
- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke



### Waveform 6 (0.25/4µs)

Level 3 / Internal

#### Current Impulse

- › Cable Bundle Multiple Burst



# AVI-LV5

Level 5

AVI-LV5 is a compact system that includes all waveforms for RTCA DO-160: Section 22 and MIL-STD-461G: CS117 testing. All event types are available for PIN Injection and Cable Bundle tests. Combined with only two couplers, AVI-LV5 is a compact and resourceful solution to indirect lightning testing needs.



## Features

- › Additional WF 5A voltage available
- › Efficient & fast operation with modern interface
- › Highly reproducible impulses
- › Automation Software available

## Benefits

- › Adjustable subsequent stroke levels
- › Built-in pin injection power blocking devices
- › Pin injection transient blocking devices
- › Injection transformers for required levels & waveforms
- › Custom WF3 CB plugins on demand



### Waveform 1 (6.4/69 $\mu$ s)

Level 5 / External

#### Current Impulse

- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke



### Waveform 2 (0.1 and 0.3/6.4 $\mu$ s)

Level 5 / External

#### Voltage Impulse

- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke



### Waveform 3 (1MHz & 10MHz)

Level 5 / External

#### Voltage & Current Impulse

- › PIN injection
- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke
- › Cable Bundle Multiple Burst



### Waveform 4 (6.4/69 $\mu$ s)

Level 5 / External

#### Voltage Impulse

- › PIN Injection
- › Ground Injection Single Stroke
- › Ground Injection Multiple Stroke



### Waveform 5A (40/120 $\mu$ s)

Level 5 / External

#### Current Impulse

- › PIN Injection
- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke



### Waveform 5B (50/500 $\mu$ s)

Level 5 / External

#### Current Impulse

- › PIN Injection
- › Cable Bundle Single Stroke
- › Cable Bundle Multiple Stroke



### Waveform 6 (0.25/4 $\mu$ s)

Level 5 / External

#### Current Impulse

- › Cable Bundle Multiple Burst



For further information please do not hesitate to contact your local EMC PARTNER AG representative.  
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