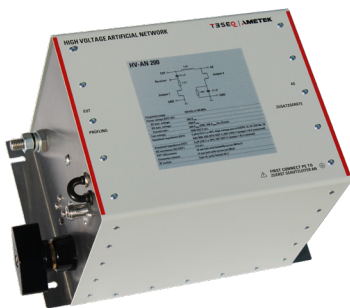




# HV-AN 200 HIGH VOLTAGE ARTIFICIAL NETWORK



- 5  $\mu$ H AN/LISN
- 200 Amps
- High voltage part of CISPR 12 (draft), CISPR 25, ECE No. 10 R05/R06, ISO 11452-1 and ISO/DTS 7637-4
- ISO 7637-2
- Low voltage part of CISPR 25, ECE No. 10 R06 and ISO 11452-1 with HV-AN 200-option-1 $\mu$ F

The artificial network HV-AN 200 offers a solution for high current and high voltage connections to the EUTs. The AN is used to simulate the impedance of a vehicle harness to determine the behavior of EUT and meet the requirements of ISO 7637-2 and the HV part of CISPR 12 (draft), CISPR 25, ECE No. 10 R05/06, ISO 11452-1 and ISO/DTS 7637-4. The optional available HV-AN 200-option-1 $\mu$ F, connected on the AE port of the HV-AN 200, allows testing of the LV part of CISPR 25, ECE No. 10 R06 and ISO 11452-1

## Technical specifications

|                            |   |
|----------------------------|---|
| Frequency range:           | 100 kHz to 100 MHz  |
| Power ratings (EUT/AE)     |   |
| AC max. voltage:           | 500 V <sub>RMS</sub>  |
| DC max. voltage:           | 1000 V <sub>RMS</sub>   |
| Current max.:              | 200 A <sub>RMS</sub> (CW), 300 A <sub>RMS</sub> (for 20 min)  |
| Test voltage:              | 1500 VDC 2 sec.   |
| Simulated impedance (EUT): | 5 $\mu$ H    47.6 $\Omega$ $\pm$ 20%, High voltage part of CISPR 12, 25, ECE No. 10 R05/R06, ISO/DTS 7637-4, ISO 11452-1 (jumper 1 & 2 connected)<br>5 $\mu$ H    50 $\Omega$ $\pm$ 10%, ISO 7637-2 (jumper 1 & 2 removed)<br>5 $\mu$ H    47.6 $\Omega$ $\pm$ 20%, Low voltage part of CISPR 25, ECE No. 10 R06, ISO 11452-1 (jumper 1 connected, jumper 2 removed, HV-AN 500-option-1 $\mu$ F connected on AE port) |
| DC resistance (AE/EUT):    | 2.3 m $\Omega$  |
| EUT/AE sockets:            | 12 mm bolt with butterfly screw (M12x1)   |
| Connector chassis          | 12 mm bolt with screw nut (M12)   |
| RF socket:                 | Type-N, jack/ female 50 $\Omega$  |

## Mechanical specifications

|                   |                          |
|-------------------|--------------------------|
| Size (L X W x D): | 365 mm x 203 mm x 203 mm |
| Weight:           | approx. 7.2 kg           |

## Environmental conditions

|                       |                                       |
|-----------------------|---------------------------------------|
| Classification        | Indoor use only                       |
| Operating temperature | 0 $^{\circ}$ C to +30 $^{\circ}$ C    |
| Storage temperature   | -10 $^{\circ}$ C to +60 $^{\circ}$ C  |
| Relative humidity     | up to 90 % (no moisture condensation) |

# HV-AN 200 HIGH VOLTAGE ARTIFICIAL NETWORK



HV-AN 200, view to the EUT port



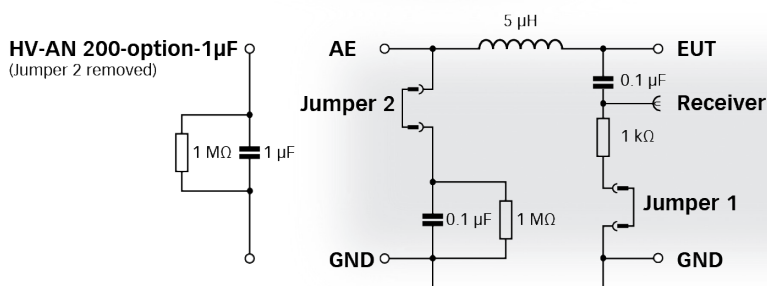
HV-AN 200, view to the AE port

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## Example of HV-AN 200 schematic



| Standard   | Jumper 1 | Jumper 2 | HV-AN 200-option-1µF |
|--|----------|----------|----------------------|
| High voltage part of CISPR 25, CISPR 12, ECE No. 10 R05/R06, ISO 11452-1, ISO/DTS 7637-4 | ●        | ●        | –                    |
| ISO 7637-2   | ○        | ○        | –                    |
| Low voltage part of CISPR 25, ECE No. 10 R06, ISO 11452-1                                | ●        | ○        | ✓                    |

“●” jumper used, connected, “○” no jumper, not connected, “✓” option on AE port connected

## Model No. and options

| Part number | Description   |
|-------------|---|
| 259601      | HV-AN 200<br>5 µH high voltage artificial network, unshielded, butterfly screw, for Automotive conform with ISO 7637-2 and HV part of CISPR 12 (draft), CISPR 25, ECE No.10 R05 / R06, ISO 11452-1 and ISO 7637-4 |
| 97-259601   | HV-AN 200-TC<br>Traceable calibration (ISO17025), order only with the device  |
| 98-259601   | HV-AN 200-ACC<br>Accredited calibration (ISO17025)  |
| 259603      | SME HV-AN 1µH/200<br>Shielded metal enclosure for two HV-AN 1µH or HV-AN 200  |
| 259608      | HV-AN 200-option-1µF<br>External 1 µF for HV-AN 200 for testing the low voltage part of CISPR 25, ECE No. 10 R06 and ISO 11452-1  |
| 259666      | CAS HVAN200<br>Calibration set for HV-AN 200  |
| 257521      | A 50-N<br>Termination 50 Ohms, N type, male, 1 Watt, 4 GHz  |