

MAIN FEATURES

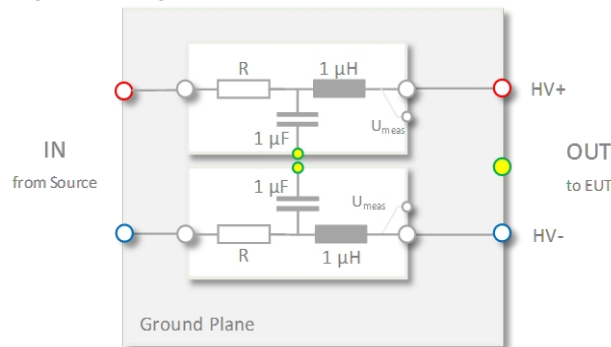
- 1 uH | 1 uF HV-AN / LISN
- according ISO 21498-2, MBN 11123, BMW GS 95023 and similar
- up to 250 A EUT current
- modular concept based on modules
- compact and air-cooled
- trolley available as accessory

HV-AN 1u-250 ISO21498
High Voltage Artificial Network

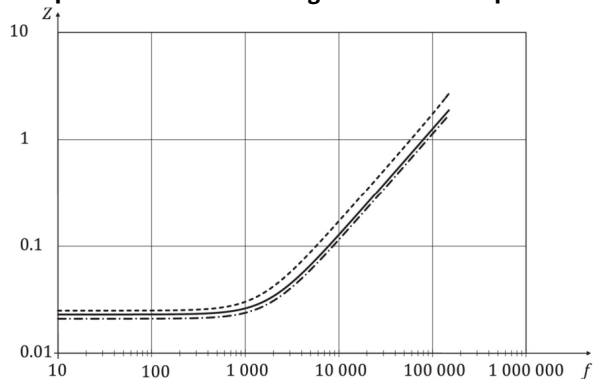
The HV-AN 1u-ISO 21498 is an artificial network used for electric vehicle high voltage component tests. The AN is used to simulate the impedance of a vehicle harness to determine the behavior of EUT and meet the requirements of ISO 21498-2, MBN 11123, BMW GS95023 and similar standards.

The HV-AN 1u-ISO 21498 is built on a modular concept. Each module incorporates the 1 uH inductance, 1 uF capacitor and one resistance value. A pair of two HV-AN 1u-ISO21498 forms a complete set for HV+ and HV- supply lines to high voltage components. Separate sets are available for each resistance value and EUT current.

Topology according ISO 21498-2



Typical impedance curve according ISO 21498-2 for pair with 2 x 10m

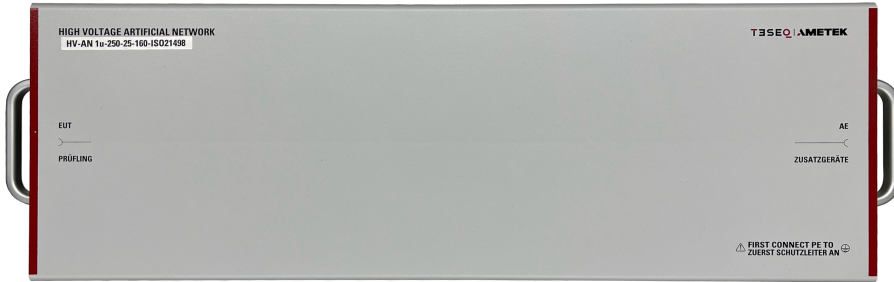


Each set is tuned individually to meet the impedance requirements of ISO 21498-2.

Available models

The EUT max. current depends on the specific model.

| Ambient temperature | EUT current max. | |
|---------------------|-----------------------------|-----------------------------|
| | $T_A \leq 25^\circ\text{C}$ | $T_A \leq 30^\circ\text{C}$ |
| HV-AN 1u-250 | | |
| 2 x 10 mΩ | 283 Arms | 255 Arms |
| 2 x 25 mΩ | 179 Arms | 161 Arms |
| 2 x 100 mΩ | 89 Arms | 81 Arms |



Technical Specifications

| | |
|-------------------------|--|
| Topology | $L_y 1 \mu H, C_y 1 \mu F, R 10 / 25 / 100 m\Omega$ (depending on model) |
| Impedance and tolerance | according ISO 21498-2 |
| max. voltage | 1000 VDC _{rms} , 500VAC _{rms} |
| Isolation voltage | 1500 VDC (AE to GND) |
| EUT/AE connector | inner thread with hex bolt (M12, key width 19 mm) |
| Measurement connector | 4mm safety banana (female), protected by fuse |
| Ground bar connector | bolt for screw nut M8 |

General Specifications

| | |
|-----------------------|---|
| Dimensions | 670 x 200 x 266mm |
| Weight | approx. 16 kg |
| Classification | Indoor use only |
| Operating temperature | 0 °C to +30 °C |
| Storage temperature | -10 °C to +60 °C |
| Relative humidity | up to 90 % (no moisture condensation) |
| Mains supply | by external power supply, 12VDC, 1.4A (included in SET) |

Model no. and options

| Part number | Description |
|-------------|---|
| 261309 | HV-AN 1u-250-10-250-ISO21498-SET, set of 2x 10mΩ module with accessories |
| 261310 | HV-AN 1u-250-25-180-ISO21498-SET, set of 2x 25mΩ module with accessories |
| 261312 | HV-AN 1u-250-100-80-ISO21498-SET, set of 2x100mΩ module with accessories |
| 261314 | HV-AN 1u-250-AD100-80-SET, 2x 100mΩ resistance only module with accessories |
| 260608 | HV-AN 1u-ISO 21498 TR, trolley on wheels with ground plane and space to store 6 modules |