



## HV-AN 1u-500 ISO21498 Series High Voltage Artificial Network

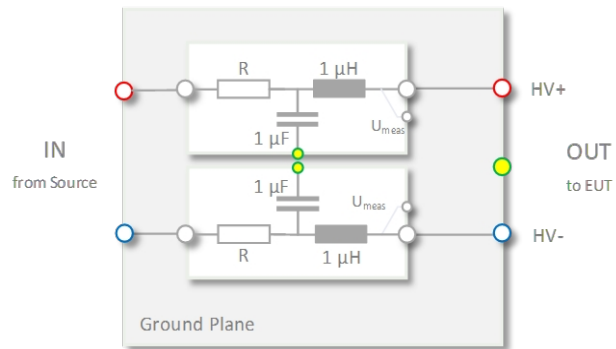
The HV-AN 1u-500 ISO 21498 are artificial networks used for electric vehicle high voltage component tests up to 500 ADC. The AN simulates the impedance of a vehicle harness and battery and is used for emission measurements. It meets the requirements of ISO 21498-2, MBN 11123, BMW GS95023 and similar standards.

### MAIN FEATURES

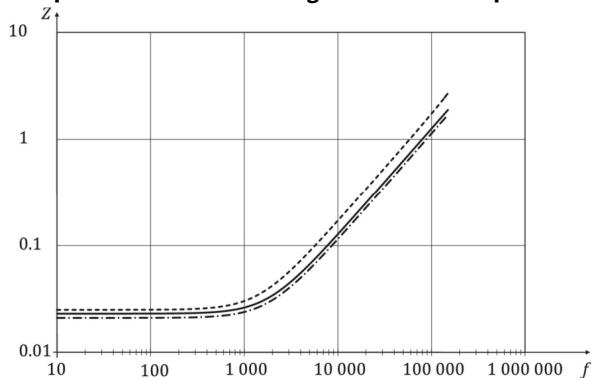
- 1 uH | 1 uF HV-AN / LISN
- according ISO 21498-2, MBN 11123, BMW GS 95023 and similar
- up to 500 A EUT current
- flexible modular concept
- compact and air-cooled
- trolley available as accessory

The HV-AN 1u-ISO 21498 is based 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 10mΩ



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.	
	$T_A \leq 25^\circ\text{C}$	$T_A \leq 30^\circ\text{C}$
<b>HV-AN 1u-500</b>		
2 x 10 mΩ	550 Arms	500 Arms
2 x 25 mΩ	346 Arms	315 Arms
2 x 100 mΩ	173 Arms	158 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 <sub>rms</sub> , 500VAC <sub>rms</sub>
Isolation voltage	1500 VDC (AE to GND)
EUT/AE connector	inner thread with hex bolt (M16, key width 24 mm)
Measurement connector	4mm safety banana (female), protected by fuse
Ground bar connector	bolt for screw nut M8

### General Specifications

Dimensions	800 x 510 x 300mm per module
Weight	approx. 51 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
261425	HV-AN 1u-500-10-500-ISO21498-SET, set of 2x 10m $\Omega$ module with accessories
261426	HV-AN 1u-500-25-315-ISO21498-SET, set of 2x 25m $\Omega$ module with accessories
261427	HV-AN 1u-500-100-160-ISO21498-SET, set of 2x100m $\Omega$ module with accessories
261428	HV-AN 1u-500-AD100-165-SET, 2x 100m $\Omega$ resistance only module with accessories
260608	HV-AN 1u-ISO 21498 TR, trolley on wheels with ground plane and space to store 6 modules