



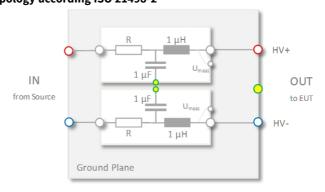


High Voltage Artificial Network

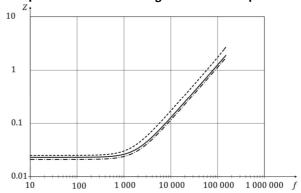
The HV-AN 1u-500 ISO 21498 are artificial networks used for electric vehicle high voltage component tests up to 500 ADC. The AN simulates the impedance of a vehicle harness and battery and is used for emission measurements. It meets the requirements of ISO 21498-2, MBN 11123, BMW GS95023 and similar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

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



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



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.

	EUT current max.	
Ambient temperature	<i>T</i> _A ≤ 25°C	T _A ≤ 30°C
HV-AN 1u-500		
2 x 10 mΩ	550 Arms	500 Arms
2 x 25 mΩ	346 Arms	315 Arms
$2 \times 100 \ m\Omega$	173 Arms	158 Arms





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

www.ametek-cts.com/

HV-AN 1u-500 ISO21498 Series





Technical Specifications

Topology Ly 1 μ H , Cy 1 μ F, R 10 / 25 / 100 $m\Omega$ (depending on model)

Impedance and tolerance
max. voltage
Isolation voltage
according ISO 21498-2
1000 VDC_{rms}, 500VAC_{rms}
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, $2x \ 100 \text{m}\Omega$ resistance only module with accessories
260608	HV-AN 1u-ISO 21498 TR, trolley on wheels with ground plane and space to store 6 modules





04 July 2023

2/2