

## LISN Type LISN-2-16

Item no. 11942

### Application

Within the range of the line-bounded interfering voltage measurement technique, the standard CISPR-16-1 demands measuring instruments which are simulating a reproducible impedance of the mains supply and are blocking disturbances out of the mains. In a frequency range of 9 kHz to 30 MHz existing, a so-called LISN is required with a defined developing of impedance.

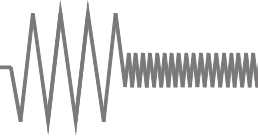
### Solution

For this purpose MTS Systemtechnik has developed a LISN which fulfills the requirements of the CISPR 16-1. This LISN has 2 phases with a maximum ampacity of 2x16A.



### Characteristics

- ▶ LISN according to CISPR, EN, VDE, ANSI
- ▶ Frequency range 9 kHz to 30 MHz
- ▶ Test connection through protection conductor socket
- ▶ International style (G, GB, F, I, CH, USA)
- ▶ Air-core coil
- ▶ Small insertion loss
- ▶ Operating voltage switchable (115/ 230V)
- ▶ 19"-Table top case
- ▶ Remote controlable over TTL-levels
- ▶ Permanent current up to 2x 16A
- ▶ Calibrated according to CISPR 16-1:1999



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### Technical datas:

#### Electrical specifications:

Frequency range:	9 kHz to 30 MHz
Impedance:	50 Ω// 50 μH+ 5 Ω 5,2 Ω (+/- 20%) @ 9 kHz 5,4 Ω (+/- 20%) @ 10 kHz 7,3 Ω (+/- 20%) @ 20 kHz 14,4 Ω (+/- 20%) @ 50 kHz 19,0 Ω (+/- 20%) @ 70 kHz 25,1 Ω (+/- 20%) @ 100 kHz 32,7 Ω (+/- 20%) @ 150 kHz 37,7 Ω (+/- 20%) @ 200 kHz 47,2 Ω (+/- 20%) @ 500 kHz 48,5 Ω (+/- 20%) @ 700 kHz 49,3 Ω (+/- 20%) @ 1 MHz 50,0 Ω (+/- 20%) @ 5 MHz 50,0 Ω (+/- 20%) @ 30 MHz
Insertion loss:	< 2,0 dB
Isolation:	>35 dB (measuring pathes L1 to N) >40 dB (DUT-MAINS)
High pass filter:	150 kHz (connectible) 5 pol., Chebycheff
Limiter:	136 dBμV (connectible)
Attenuator:	20 dB/ 2 W (connectible)
Simulated hand:	510 Ω + 220 pF
PE-Simulation:	50 μH/ 16 air-core coil (connectible)
Auxiliary current supply:	115 VAC (48-63 Hz) 230 VAC (48-63 Hz) switchable through voltage selector switch
Power rating:	2x 16 A (230V)
Internal voltage dropl:	max. 10% of the operat. voltage
DC resistance:	<400 mΩ (L1 and N)

#### Connectors:

Front panel:	- Test item (protected plug box) - Hand reproduction - Test receiver (BNC female)
Rear panel:	- Power cord (1m) - Gronding pin (M8) - RF-ground (135x 35 mm) - Remote control (15 pol.) - Voltage selector switch

#### Indication:

- Phase L1/ N (LED, green)
- Phase indicator (LED, green)
- Remote (LED, red)
- High pass (LED, green)
- Attenuator (LED, green)
- Impulse limiter (LED, green)
- PE-simulation (LED, green)

#### Control:

Remote: TTL-levell

#### Mechanical specifications:

Dimensions (w xh x d):	345x 135x 310 mm
Front panel:	Colorless anodized / engraved
Rear panel:	Colorless anodized / engraved
Weight:	6,9 kg

#### Environmental condidions:

Working temperature:	+5 °C to +60 °C
Reference temperature for declared specifications:	+5 °C to +60 °C
Storage temperature:	-30 °C to +70 °C

#### Delivery package:

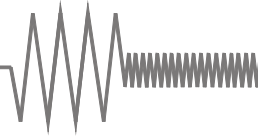
- LISN Type LISN-2-16
- BNC cable 1m
- Correction values
- COC

#### Comments:

Warranty:	12 month
Intervall of calibration:	12 month

#### Recommended accessories:

- Remote adapter (RS 232)
- Remote adapter (USB)
- Remote adapter (Rohde & Schwarz)



Technical subject to change

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