

# PMM LISN L2-16B

## Artificial Mains V-Network for single phase and DC powered EUTs



### Provided functions:

- Powering the EUT
- EUT termination to a standardized impedance respect to the reference ground
- Coupling of the measurement receiver to disturbance generated by the EUT
- Decoupling of the measurement receiver from unwanted RF signals from the power line

### Main features:

- 9kHz to 30MHz frequency range
- Up to 16A continuous rated output current
- built-in, selectable, 150kHz high pass filter
- Artificial Hand circuit
- Local and remote control from PMM EMI receivers
- Meets the requirements of several standards including CISPR 16-1-2, VDE 0876, FCC part 15.

The AMN - Artificial Mains Network, also known as LISN - Line Impedance Stabilization Network - is the ancillary device intended for repeatable and accurate measurement of the disturbance voltage that an EUT (Equipment Under Test) may inject into the power line or mains.

This is obtained by providing well known impedance value and phase response across the frequency range of the test.

PMM L2-16B is suitable for measurement on AC single phase and DC power circuits from DC to 60 Hz. The equivalent V-Network circuit of  $50 \Omega // (5 \Omega + 50 \mu\text{H})$  is fully compliant with the reference standards.

PMM Artificial Mains Networks provide robust and stable mechanical construction, high quality electric components, easy and perfect grounding, solid input-output power connections. They can be used in conjunction with any EMI receiver or spectrum analyzer and offer features required for safe, repeatable and accurate measurements.

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### Specifications

Frequency range:	9 kHz to 30 MHz
Continuous rated output current:	16 A
Max. permissible operating voltage (L/N) (L/PE):	250 VAC; 350 VDC
AC supply frequency range:	DC - 60 Hz
Equivalent circuit:	50 Ω // (5 Ω + 50 μH)
RF output connector:	BNC female
EUT connection:	SCHUKO connector
Operating temperature:	0°C to +45°C
Storage temperature:	-25°C to +75°C
Overall dimensions mm (W x H x D):	230 x 105 x 285
Weight:	5,5 kg

### Ordering Information

PMM L2-16B single phase Artificial Mains Network

Includes: power supply cable, RF cable, LISN remote control cable, user's manual, calibration certificate.

### Optional accessories

LISN service kit (AC-BNC adapter for LISN verification and calibration)

#### REMARKS

- Electrical safety and presence of ground protection relays do require the installation of properly rated insulating transformer(s) between mains power line and AMN line inputs.
- High mains noise may require the installation of properly rated mains filters to reduce the level of unwanted signals.

### Related products:

Receivers:

- 9010: EMI receiver 10 Hz -30 MHz
- 9010/03P: EMI receiver 10 Hz - 300 MHz
- 9010/30P: EMI receiver 10 Hz -3 GHz

LISN:

- L3-32: 4 lines, 3-phase AMN, 32 A
- L3-64: 4 lines, 3-phase AMN, 64 A
- L3-100: 4 lines, 3-phase AMN, 100 A
- L3-500: 4 lines, 3-phase AMN, 350 A
- L1-150: one line, 50Ω//(1Ω + 5μH), AMN 150 A
- L1-150M: multi standard, one line, AMN 150 A
- L2-D: Delta LISN for telecom, 2 A, 150 Ω

RFI filters:

- FIL-L2-16F: single phase RFI filter, 16 A
- FIL-L2-24M: single phase RFI filter, 24 A
- FIL-L3-32M: 3-phase+neutral RFI filter, 32 A
- FIL-L3-70M: 3-phase+neutral RFI filter, 70 A

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