



Test Site Hardware **LISN** Model 4825/2

Features:

- 9 kHz to 30 MHz Frequency Range
- 25 A Continuous Current Rating
- Earth Line Choke
- Artificial Hand Network
- Choice of EUT Power Adapter Boxes
- IEC 1010 Compliant



LISN Model 4825/2

EMCO'S LISN Model 4825/2 is a two-line, low pass, filter network used for conducted emissions measurements. The product is placed between the power mains and the equipment under test (EUT) to stabilize line impedance, provide a 50 ohm RF connection, and eliminate unwanted RF signals from the line supply.

LISNs play an important role in achieving test accuracy. Without a LISN, conducted interference on the power mains can disrupt measurement reliability. Also, line impedance variances from one test site to another can degrade repeatability. With a LISN integrated into the test system, conducted RF interference is filtered and a stable line impedance is assured.

The Model 4825/2 is designed and tested in accordance with IEC Publication 1010, Safety Requirements for Electronic Measuring Apparatus. It has also received CSA safety certification from the Canadian Standards Association, a further indication of EMCO's commitment to safety.

This product covers the frequency spectra of 9 kHz to 30 MHz and is designed to be used with a signal

analyzer for making FCC 15, VDE 0871 & 0875, EN 55022 and CISPR 22 conformance measurements.

Features

Earth Line Choke

A safety ground isolation choke selector switch, located on the front panel, switches the 1.6 microhenry earth line choke "IN" and "OUT" of the safety ground circuit. When the selector is switched to the "IN" position, the unit isolates the EUT from RF ground while maintaining a safety ground.

Artificial Hand

An Artificial Hand circuit which conforms to EN 55014 and BS 800 is included. The circuit is useful for testing hand-held equipment which does not have a connection to protective earth ground.

High Pass Filter

A high pass filter is included on each monitor port, preventing potential overload to the analyzer and eliminating the need to apply correction factors to measurements.

Overcurrent Protection

To protect test equipment, a switchable, two-pole circuit breaker is mounted on

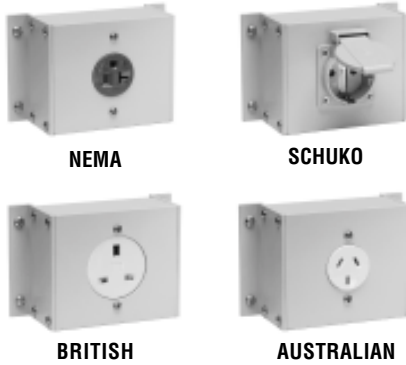
the rear panel. Providing excellent overcurrent protection, the circuit breaker is rated at 250 VAC, 50/60 Hz at 25 amperes.

EUT Power Adapter Boxes

The EUT is connected to the LISN through an interchangeable power adapter mounted on the front panel of the unit. This convenient feature enables users who are responsible for testing products with worldwide distribution to quickly switch from one receptacle type to another. Please specify the receptacle types required when placing an order. One (1) adapter box with a single receptacle type is standard. See Options section for details on ordering more than one type of adapter box.

Standard Configuration

- LISN assembly
- One (1) EUT Adapter Box. Please specify receptacle type when placing order.
- Individually calibrated per ANSI C63.4. Actual insertion loss and impedance data and a signed Certificate of Conformance included in Manual.



NEMA

SCHUKO

BRITISH

AUSTRALIAN

Select From Four Interchangeable
EUT Power Adapters

Options

EUT Adapter Boxes

Choose from four detachable power adapters that can be mounted on the front panel of the unit. One (1) is included as standard, others can be purchased as options.

NEMA 125 VAC 15/20 amp simplex
(P/N105782)

Schuko 230 VAC 16 A (P/N105783)

British 230 VAC 13 A (P/N105784)

Australian 230 VAC 10/15 A (P/N105803)

MP4 Cord Loom

Provides a repeatable method for looping excess cord in serpentine fashion, per MP4.

Physical Specifications

MODEL	WIDTH	DEPTH	HEIGHT	WEIGHT
4825/2	43.8 cm 17.3 in	38.1 cm 15.0 in	13.3 cm 5.3 in	11.3 kg 25.0 lb



Model 4825/2 Back View

Applications

MODEL	TEST TYPE				
	FCC-15	VDE 0871	VDE 0875	EN55022	CISPR
4825/2	CE	CE	CE	CE	CE

CE = Conducted Emissions

Operational Features

MODEL	MANUAL SWITCHED EARTH LINE CHOKE	ARTIFICIAL HAND	HIGH PASS FILTER	OVERCURRENT PROTECTION	EUT ADAPTER BOXES
4825/2	✓	✓	✓	✓	✓

Electrical Specifications

MODEL	LINES PLUS GROUND	FREQUENCY RANGE	POWER SOURCE FREQUENCY	MAXIMUM CURRENT	MAXIMUM VOLTAGE	NETWORK INDUCTANCE IMPEDANCE	POWER IN CONNECTOR	POWER OUT CONNECTOR
4825/2	NM	9 kHz – 30 MHz	60 Hz	25 A	125 VAC Line to Ground	50 μH / 250 μH 50 Ω	IEC 309 32 A mating plug supplied	NEMA®
	SH		50 Hz		250 VAC Line to Ground			SCHUKO®
	BS		50 Hz		250 VAC Line to Ground			British
	AS		50 Hz		250 VAC Line to Ground			Australian

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