

TEST SITE HARDWARE LISN



MODEL 4825/2

- 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

ETS-Lindgren's 4825/2 LISN is a two-line low pass filter network used for conducted emissions measurement. The product is placed between the power mains and the Equipment Under Test (EUT) to stabilize line impedance, provide a 50 Ω 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, further indication of ETS-Lindgren's commitment to safety.

This LISN model covers the 9 kHz to 30 MHz frequency range and is designed to be used with a signal analyzer for making FCC 15, VDE 0871, VDE 0875, EN 55022 and CISPR 22 conformance measurements.

Earth Line Choke

An included Earth Line Choke isolates the EUT from RF ground while maintaining a safety ground.

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 Calibration included in manual.

Artificial Hand

An Artificial Hand circuit which conforms to EN55014 and BS 800 is included on the Model 4825/2. 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 Amps.

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 ordering. 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.

Interchangeable EUT Power Adapters (Select one as standard, additional as optional)



NEMA
125 VAC 15/20 A Simplex
(P/N 105782)



SCHUKO
230 VAC 16 A
(P/N 105783)



British
230 VAC 13 A
(P/N 105782)



Australian
230 VAC 10/15 A
(P/N 105803)

Applications

FCC-15	CE
VDE 0871	CE
VDE 0875	CE
EN55022	CE
CISPR	CE

Operational Features

Manual Switched Earth Line Choke	Yes
Artificial Hand	Yes
High Pass Filter	Yes
Overcurrent Protection	Yes
EUT Adapter Boxes	Yes

Options

- EUT Adapter Boxes can be mounted to the front panel of the unit.
- MP4 Cord Loom provides a repeatable method for looping excess cord in serpentine fashion, per MP4.

TEST SITE HARDWARE L15N



Model 4825/2 Back View

Technical Specifications

Electrical (4825/2-NM)

Power Out Connector	NEMA
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	60 Hz
Maximum Current	25 A
Maximum Voltage	125 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	IEC 309 32 A Mating Plug Supplied

Electrical (4825/2-SH)

Power Out Connector	SCHUKO
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	50 Hz
Maximum Current	25 A
Maximum Voltage	250 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	IEC 309 32 A Mating Plug Supplied

Electrical (4825/2-BS)

Power Out Connector	British
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	50 Hz
Maximum Current	25 A
Maximum Voltage	250 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	IEC 309 32 A Mating Plug Supplied

Electrical (4825/2-AS)

Power Out Connector	Australian
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	50 Hz
Maximum Current	25 A
Maximum Voltage	250 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	IEC 309 32 A Mating Plug Supplied

Physical (4825/2 Series)

Width	43.8 cm
	17.3 in
Depth	38.1 cm
	15.0 in
Height	13.3 cm
	5.3 in
Weight	11.3 kg
	25.0 lb



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