TEST SITE HARDWARE LISN/PLISN

Model 3810/2 LISN

Model 3816/2 LISN

MODELS 3810/2, 3816/2

- **9 kHz to 30 MHz Frequency Range**
- **10 A or 16 A Continuous Current Rating**
- **Earth Line Choke**
- **Artificial Hand Network**
- **High Pass Filter**
- **Choice of Plugs/Receptacles**
- **Manual or Remote Switched Test Ports**

ETS-Lindgren's 3810/2 and 3816/2 LISNS are multi-line low pass filter networks used for conducted emissions measurement. They are 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. In addition, LISNs can be used to predict radiated emissions for diagnostic and pre-compliance testing.

The Model 3810/2 is designed and tested in accordance with IEC Publication 1010, further indication of ETS-Lindgren's commitment to safety.

Both LISN models cover the 9 kHz to 30 MHz frequency range and are designed to be used with a signal analyzer for making FCC 15, VDE 0871, VDE 0875, and EN 55022 conformance measurements.

Earth Line Choke
An Earth Line Choke is included on the Model 3810/2 and Model 3816/2. The choke isolates the EUT from RF ground while maintaining a safety ground.

Artificial Hand
An Artificial Hand circuit which conforms to EN55014 is included on both the 3810/2 and the 3816/2 LISNs. The circuit is useful for testing hand-held equipment which does not have a connection to protective earth ground.

High Pass Filter
A switchable high pass filter is included on the Model 3816/2, preventing potential overload to the analyzer and eliminating the need to apply correction factors to measurements.

Choice of Plugs/Receptacles
Both models are available with either NEMA®, SCHUKO®, or British power out connectors.

Manual and Remote Switched Test Ports
Manual line switching is provided on the Model 3810/2, while both manual and remote switching are included on the 3816/2. In the remote switching mode, the selected line (A or B) is terminated at 50 Ω load when power has not been applied to the mains, permitting measurement of the noise floor.

Standard Configuration
- LISN Assembly
- Individually calibrated per ANSI C63.4. Actual insertion loss and impedance data and a signed Certificate of Calibration included in manual.

Options
- MP4 Cord Loom provides a repeatable method for looping excess cord in serpentine fashion, per MP4.

Applications

3810/2 and 3816/2 Series	
FCC-15	CE
VDE 0871	CE
VDE 0875	CE
EN55022	CE

Operational Features

3810/2 Series	
Manual Switched Earth Line Choke	Yes
Artificial Hand	Yes
Manual Switched High Pass Filter	No
Manual Switched Test Ports	Yes
Remote Switched Test Ports	No
3816/2 Series	
Manual Switched Earth Line Choke	Yes
Artificial Hand	Yes
Manual Switched High Pass Filter	Yes
Manual Switched Test Ports	Yes
Remote Switched Test Ports	Yes

TEST SITE HARDWARE LISN/PLISN

Technical Specifications

Electrical (3810/2-NM)	
Power Out Connector	NEMA
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	60 Hz
Maximum Current	10 A
Maximum Voltage	125 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	IEC Power Inlet with Customer Specified Cordset
Electrical (3810/2-SH)	
Power Out Connector	SCHUKO
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	50 Hz
Maximum Current	10 A
Maximum Voltage	250 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	IEC Power Inlet with Customer Specified Cordset
Electrical (3810/2-BS)	
Power Out Connector	British
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	50 Hz
Maximum Current	10 A
Maximum Voltage	250 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	IEC Power Inlet with Customer Specified Cordset
Physical (3810/2 Series)	
Width	22.2 cm
	8.7 in
Depth	38.1 cm
	15.0 in
Height	15.2 cm
	6.0 in
Weight	4.9 kg
	10.7 lb

TEST SITE HARDWARE LISN/PLISN

Technical Specifications

Electrical (3816/2-NM)	
Power Out Connector	NEMA
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	60 Hz
Maximum Current	16 A
Maximum Voltage	125 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	Customer Specified Plug
Electrical (3816/2-SH)	
Power Out Connector	SCHUKO
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	50 Hz
Maximum Current	16 A
Maximum Voltage	250 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	Customer Specified Plug
Electrical (3816/2-BS)	
Power Out Connector	British
Lines Plus Ground	2
Frequency Range	9 kHz to 30 MHz
Power Source Frequency	50 Hz
Maximum Current	16 A
Maximum Voltage	250 VAC Line to Ground
Network Inductance Impedance	50µH/250µH, 50 Ω
Power In Connector	Customer Specified Plug
Physical (3816/2 Series)	
Width	22.2 cm
	8.7 in
Depth	38.1 cm
	15.0 in
Height	15.2 cm
	6.0 in
Weight	4.9 kg
	10.7 lb