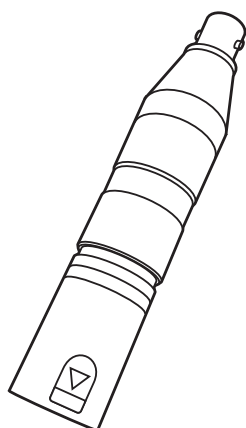


ICP Adapter ASD

for XL2 Analyzer



ICP Adapter ASD

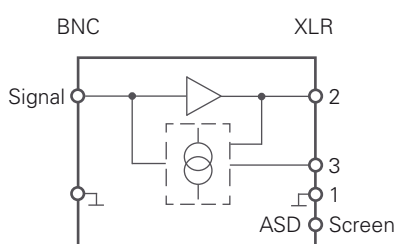
The ICP Adapter connects to the XL2 and generates ICP power supply for accelerometers and other custom sensors. The adapter offers an electronic data sheet, which stores the sensitivity and individual serial number of the connected sensor.

Application

- Vibration measurements

Electronic Data Sheet

The Automated Sensor Detection (ASD) of the XL2 Analyzer automatically reads the electronic data sheet of this adapter, i.e. the adapter model, the sensor serial number and calibration data. This promotes faster setup and ensures accurate measurements. The information of the electronic data sheet is documented in every XL2 measurement report.



Block Diagram
ICP Adapter ASD

Specifications

Output / Input	XLR / BNC
Power Supply for Sensors	<ul style="list-style-type: none"> • ICP® • 4 mA +/- 0.02 mA
Power Supply from XL2	48 V Phantom Power
Maximum Input Level	8.84 V (146.9 dB @ Sensitivity = 20 mV/Pa)
Residual Noise typical	<ul style="list-style-type: none"> • LA = 2.5 µV • LZ = 3.5 µV
THD @ 1 kHz, 1Vrms	< 80 dB
Frequency Range	2.1 Hz - 300 kHz
DC Offset Voltage	12 +/- 2 VDC
NTi Audio #	600 010 223

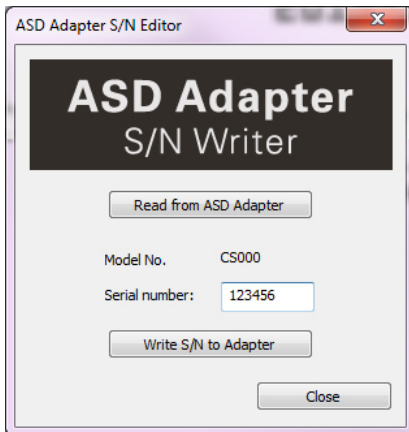
ICP® is a registered trademark of PCB Piezotronics.

Prior First Use

Serial Number Setting

Store the serial number of your connected sensor in the electronic data sheet of the adapter.

- Connect the XL2 to the computer and start the XL2 Projector software V2.6 or higher. You will see the XL2 screen live on the PC monitor. The latest XL2 Projector software is available for download at <http://my.nti-audio.com/support/xl2>.
- Press F4 on the keyboard to open the ASD Adapter S/N Writer.
- Click **Read from ASD Adapter**.
- Enter the sensor serial number.
- Click **Write S/N to Adapter**.







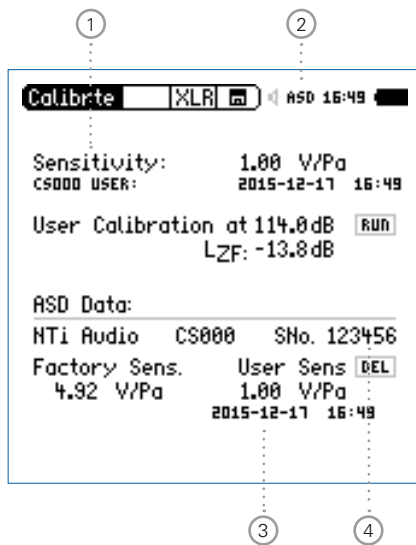
XL2 Projector
Serial Number Setting

In case you use multiple custom sensors, then we suggest utilizing an individual adapter for each sensor. This saves time and simplifies your operation.

User Calibration

Set the sensitivity according to the sensor specifications:

- Connect the adapter to the XL2.
- Power on the XL2 and select **Calibrte** in the main menu. The ASD indication ② will be shown. In case ASD is not shown, then select the measurement function **SLMeter** shortly and afterwards **Calibrte** again. The XL2 reads the sensor data at start up and change of measurement function.
- Select **Sensitivity** ① with the rotary wheel .
- Press enter  and adjust the sensitivity with the rotary wheel  in 0.1 mV/Pa steps. The setting range is 1 µV/Pa - 9.99 V/Pa.
- Confirm with enter .



👍 The configuration is completed. The serial number ③ and sensitivity ④ are stored in the electronic data sheet.



Dispose the instrument in accordance with the legal environmental regulations in the country.



Calculate Sensitivity mV/Pa for Accelerometer

Sensitivity in mV/Pa = Sensitivity in mV/g * 0.00511
The accelerometer data sheet lists the sensitivity. For example 100 mV/g converts into 511 µV/Pa for precise vibration measurements with the XL2 Analyzer.

Keep User Calibration

The XL2 deletes the user calibration at the serial number setting. Thus always set the serial number first and the user calibration afterwards.