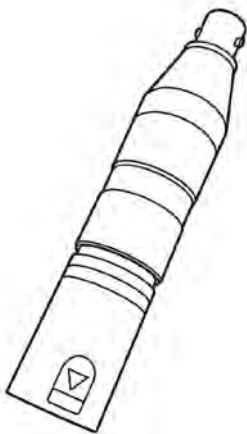


ICP Adapter ASD

for XL2 or XL3 Analyzer



ICP Adapter ASD

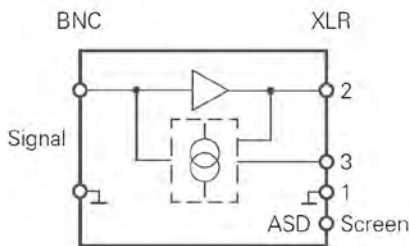
The ICP Adapter ASD is plugged on the XL2 or XL3 Analyzer and generates the power supply for a connected accelerometer or other ICP-type sensor. The adapter includes a programmable electronic data sheet, which stores the sensitivity and the serial number of the connected sensor.

Applications

- Acoustic measurements
- Vibration measurements (XL2 only)

Electronic Data Sheet

The Automated Sensor Detection (ASD) of the XL2 or XL3 Analyzer automatically reads the electronic data sheet of this adapter, i.e. the adapter model, the sensor's serial number and its calibration data. This promotes faster setup and ensures accurate measurements. The information of the electronic data sheet is documented in every XL2 or XL3 measurement report.

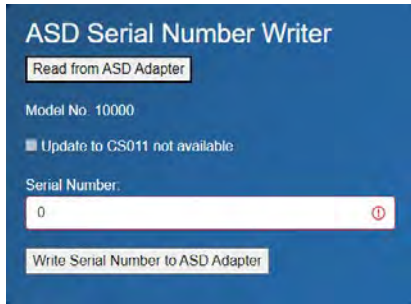


Block Diagram
ICP Adapter ASD

Specifications

Input / Output	BNC / XLR
ICP® Power Supply for Sensors	4 mA ±0.02 mA
Power Supply	48 V Phantom Power (from XL3/XL2)
Maximum Input Level	8.2 V @ 3% THD
• with XL3 or XL2 in sound mode	145 dB @ 20 mV/Pa
• with XL2 in vibration mode	353 m/s ² , 36 g @ 20 mV/(m/s ²)
Bandwidth @ -3 dB (typical)	0.7 Hz ... 300 kHz
• with XL3	0.7 Hz ... 38 kHz
• with XL2 in sound mode	2.1 Hz ... 23.6 kHz
• with XL2 in vibration mode	0.7 Hz ... 23.6 kHz
THD @ 1 kHz, 1 V _{rms}	< -80 dB
Residual Noise (typical)	LA = 2.8 µV @ 4.4 Hz ... 23.0 kHz
• with XL3 or XL2 in sound mode	LZ = 5.3 µV @ 4.4 Hz ... 23.0 kHz
• with XL2 in vibration mode	17 µV @ 0.7 Hz ... 23.0 kHz
	14 µV @ 1 Hz ... 80 / 315 Hz
DC Offset Voltage	12±2 VDC
Weight	60 g, 2.1 oz
Dimensions	Length x Diameter: 97 x 19 mm (3.8" x 0.7")
NTi Audio #	600 010 223

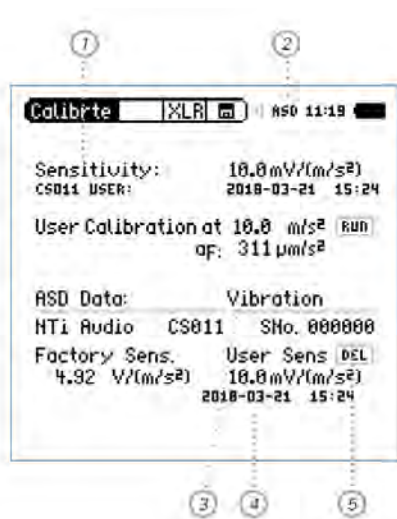
ICP® is a registered trademark of PCB Piezotronics.



XL3 Connect website
Serial Number Setting



XL2 Projector PRO
Serial Number Setting



XL2 Calibration
Menu in Vibration Mode

Prior to First Use

Serial Number Setting with XL2 or XL3

Store the serial number of your connected sensor in the electronic data sheet of the ICP Adapter ASD.

- 1a) **XL2**: Connect the XL2 to the PC and start the XL2 Projector PRO software V1.50 or higher. You will see the XL2 screen live on the PC monitor (the latest XL2 Projector PRO software is available for download at <https://my.nti-audio.com/support/xl2>). Press F4 on the keyboard to open the ASD Adapter S/N Writer.
- 1b) **XL3**: Connect the XL3 e.g. via USB to the PC and open the website <http://usb.local/AsdAdapterSnWriter>.
- 2) Click on **Read from ASD Adapter**.
- 3) Enter the sensor serial number.
- 4) Click on **Write S/N to Adapter**.




If you are using various custom sensors, then we suggest to utilizing an individual ASD Adapter for each sensor. This saves time and simplifies your operation.


Switching the XL2 between Sound and Vibration Mode

The XL2 Analyzer offers two different operation modes, Sound or Vibration. Select the required mode ③ in the **Calibrte** Menu. The ICP Adapter ASD stores a single sensitivity, presented as mV/Pa or mV/(m/s²), and the XL2 reads the mode of the last usage.

User Calibration with XL2

Execute a user calibration or set the sensitivity manually according to the sensor specifications:

- Connect the ICP Adapter ASD 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 function **SLMeter** or **VibMeter** shortly and afterwards **Calibrte** again. The XL2 reads the sensor data at start up and change of function.)
- Select **Sensitivity** ① with the rotary wheel .
- Press enter  and adjust the sensitivity with the rotary wheel.
- Confirm with enter .

 The configuration is completed. The sensitivity ④ and serial number ⑤ are stored in the electronic data sheet.



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.