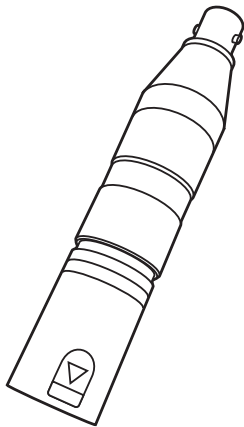


ICP Adapter ASD

for XL2 Sound & Vibration Analyzer



ICP Adapter ASD

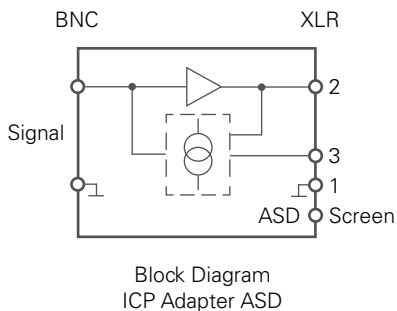
The ICP Adapter ASD connects to the XL2 and generates the power supply for accelerometers or other ICP sensor types. The adapter offers an electronic data sheet, which stores the sensitivity and the serial number of the connected sensor.

Applications

- Vibration measurements
- Acoustic 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's 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.



Specifications

Input / Output	BNC / XLR
ICP® Power Supply for Sensors	4 mA ±0.02 mA
Power Supply from XL2	48 V Phantom Power
Maximum Input Level <ul style="list-style-type: none"> • with XL2 in sound mode • with XL2 in vibration mode 	8.2 V @ 3% THD <ul style="list-style-type: none"> • 145 dB @ 20 mV/Pa • 353 m/s², 36 g @ 20 mV/(m/s²)
Bandwidth @ -3 dB (typical) <ul style="list-style-type: none"> • with XL2 in sound mode • with XL2 in vibration mode 	0.7 Hz ... 300 kHz <ul style="list-style-type: none"> • with XL2 in sound mode • with XL2 in vibration mode
THD @ 1 kHz, 1 V _{rms}	< -80 dB
Residual Noise (typical) <ul style="list-style-type: none"> • with XL2 in sound mode • with XL2 in vibration mode 	LA = 2.8 µV @ 4.4 Hz ... 23.0 kHz LZ = 5.3 µV @ 4.4 Hz ... 23.0 kHz 17 µV @ 0.7 Hz ... 23.0 kHz 14 µV @ 1 Hz ... 315 Hz 14 µV @ 1 Hz ... 80 Hz
DC Offset Voltage	12±2 VDC
NTi Audio #	600 010 223

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Prior to First Use



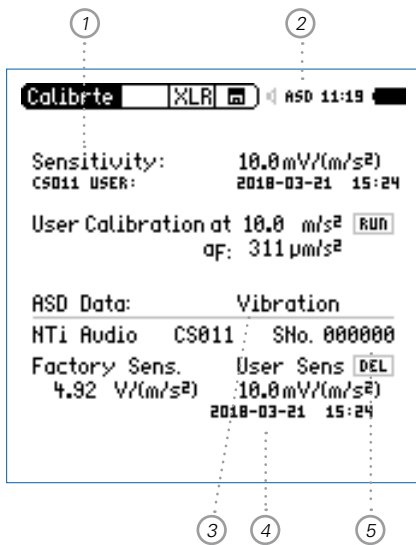
XL2 Projector PRO
Serial Number Setting

Serial Number Setting

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

- Connect the XL2 to the PC and start the XL2 Projector PRO software V1.24 or higher. You will see the XL2 screen live on the PC monitor. The latest XL2 Projector PRO 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**.

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






XL2 Calibration Menu
in Vibration Mode


Switching between Sound and Vibration Mode

The XL2 Analyzers offers two different operation modes: Sound and 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 the mode of the last usage.

User Calibration

Execute a user calibration or set the sensitivity manually 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 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.