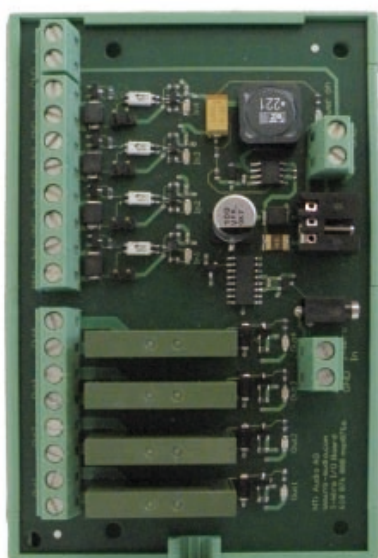


# Digital I/O Adapter PCB

## for XL2 Audio and Acoustic Analyzer



Top View  
Digital I/O Adapter



Side View  
Digital I/O Adapter

The XL2 Audio and Acoustic Analyzer together with the Digital I/O Adapter control external peripherals, such as displaying exceeding sound levels on a big red-orange-green lamp. Measurements can be started by an external switch. The Digital I/O Adapter connects to the digital I/O interface of the XL2 Analyzer.

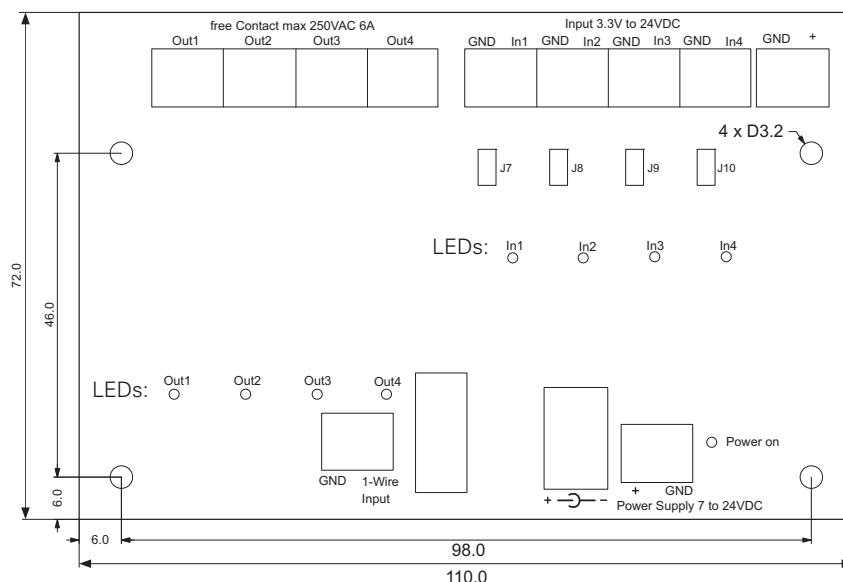
### Key Features

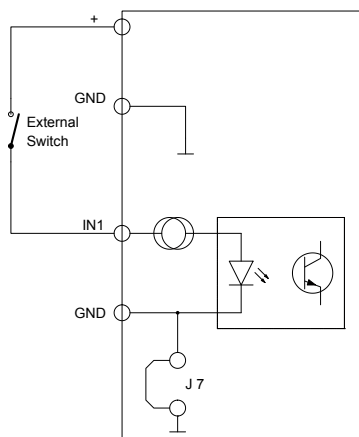
- Offers 4 outputs for control of external peripherals
- Switches up to 250 V<sub>AC</sub> at 6 A
- Offers 1 input to start FFT or 1/12 Octave measurement
- Controlled by XL2 Audio and Acoustic Analyzer

### Applications

- Sound level monitoring at live events
- Control of external peripherals based on sound levels

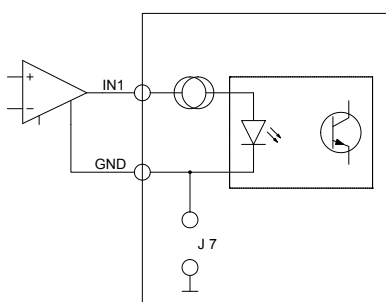
### Mechanic Dimensions PCB





Digital I/O Adapter

Connecting a switch  
to input 1 of the Digital I/O Adapter PCB



Digital I/O Adapter

Connecting an active signal  
to input 1 of the Digital I/O Adapter PCB

## Specifications

Outputs	<ul style="list-style-type: none"> <li>• 4 individual outputs</li> <li>• Connector type: mounting terminals</li> <li>• Terminals mutually isolated</li> <li>• Relay outputs switching @ <ul style="list-style-type: none"> <li>• resistive load up to <math>250 V_{AC} / 6</math> Ampere floating</li> <li>• inductive load up to <math>250 V_{AC} / 3 A, 24 V_{DC} / 2 A</math></li> </ul> </li> </ul>
Inputs	<ul style="list-style-type: none"> <li>• 4 individual inputs</li> <li>• XL2 uses input 1 to start the pass/fail measurement in the FFT and 1/12 Octave function (requires Spectral Limits Option)</li> <li>• Connector type: mounting terminals</li> <li>• Terminals mutually isolated</li> <li>• Input level <math>3.3 - 24 V_{DC} / 1.5 mA</math></li> <li>• Inputs have common ground with external power supply at plugged-in jumpers J7 - J10</li> <li>• Inputs floating at removed jumpers J7 - J10</li> </ul>
Status Indication Switches	PCB LEDs for output activated, input on
XL2 Control	Connection cable included, length = 2 meter Termination: <ul style="list-style-type: none"> <li>• Ring - Common ground, black</li> <li>• Tip - Signal, white</li> </ul>
Installation	Only skilled and trained electrical personnel are authorized to carry out installations.  Rail mount: <ul style="list-style-type: none"> <li>• Installation on mounting rails type NS 32, NS 35/75</li> </ul> PCB only: <ul style="list-style-type: none"> <li>• Mounting with M3 screws</li> <li>• Use isolating washers for mounting into a metal-housing</li> <li>• Required installation height is 25 mm, 1"</li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>• External power supply via terminals to be provided</li> <li>• Power supply range <math>6 - 24 V_{DC}, 1 W</math></li> </ul>
Cascading	Up to 10 I/O Devices can be cascaded @ one single XL2 (cabling not included)
Dimensions W x H x D	Rail mount: $180 \times 77 \times 60$ mm, $7.09" \times 3.03" \times 2.36"$ PCB only: $110 \times 72 \times 20$ mm, $4.33" \times 2.83" \times 0.79"$
Temperature	$-10^{\circ} C$ to $+50^{\circ} C$ ( $14^{\circ}$ to $122^{\circ} F$ )
Humidity	$< 90\% RH$ (non-condensing at $50^{\circ} C, 122^{\circ} F$ )
Weight	Rail mount: 127 g, 0.28 lbs PCB only: 73 g, 0.16 lbs
Standards	CE compliant: <ul style="list-style-type: none"> <li>• EN 61326-1 Class B</li> <li>• EN 55011 class B, EN 61000-4-2 to -6 and -11</li> </ul> Safety EN 60 065, EN 61 010-1:2001, class II

All information subject to change without notice.