

USB Acoustic Emission (AE) Node

Easy Laptop & PC Connection and Low Cost Acoustic Emission System

USB AE Node

The USB AE Node is a single channel Acoustic Emission (AE) Digital Signal Processor with full AE hit and time based features, including waveforms. Through the USB Connector, the AE Node is easily interfaced to a Notebook or PC running Windows XP™ or Vista™ and Physical Acoustics Corporation (PAC) well known AEwin™ or AEwin Lite™. Up to 4 AE Nodes can be controlled by one Notebook or PC.

The AE Node can accept single ended or differential sensors amplified by an internal low noise preamplifier. Additionally, PK Series low power integral preamp sensors can be used for long distance connections.

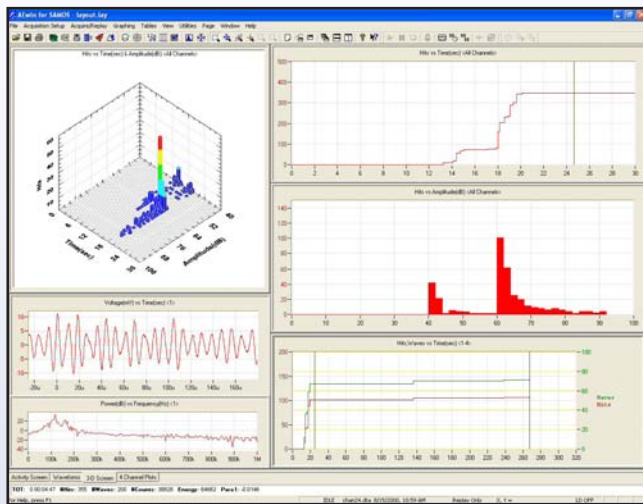
"AEwin for USB" AE NODE Software

Extracted Hit Features:

Time of 1st Threshold Crossing
Time to Peak, Peak Amplitude, Envelope Strength,
Duration Rise Time, Counts, True Energy
RMS, ASL
Parametrics (1-2)

Time Based Features

ASL, RMS, Parametrics (1-4)
Peak Amplitude, Crest Factor, Energy rate



Features & Benefits

- Powered and operated through USB Port
- Rugged surface mount (SMT) construction
- High performance AE at a low cost
- 1kHz to 1MHz bandwidth
- Selectable analog filters and programmable digital filter
- Waveform and Location Options

Specifications

AE Input:	1 Channel per USB node (4 nodes per system)
Frequency Response:	1.0 kHz to 1.0 MHz
AE Digitizing:	18 bit, 20 MSPS ADCs
Parametric Inputs:	1-4 CH , 0-4V, 16 bits
OS:	Windows XP or Vista
Case Size:	L 6" x W 3" x H 2" (152 x 76 x 50mm)
Weight:	0.8 lbs. (0.36kg)
Power Requirements:	USB Powered (5V) < 100 mA when running
Power Consumption:	< 0.5 watt

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