

# Momentary Amplitude Meter

Audio Signal Analysis Unit  
User Manual And Technical Reference

ACOUSTIC RESEARCH





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I wish you the greatest success in your research

*James Chaffinch*  
James Chaffinch, CEO

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This product's connections follow the Coordinated Universal Interworking Standard (CUIIS) and as such can be used with any other product from any manufacturer that also adheres to this standard.

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# Description

The Momentary Amplitude Meter unit is an audio signal analysis device which can be used to visualise audio signals. It does so by writing values to a gauge which ranges between 0 and 1. The values written to this display are based on the audio signal values collected through the audio signal input connection, and compiled together in a manner specified by two selected values.

Collected audio values are stored in an internal buffer for calculation. The occurrence of this calculation is defined by the “Sample Rate” dial, which allows for a selection between 1 calculation a second, to 30 calculations per second. The calculation performed is a simple “Absolute Max” operation, where all the values in the buffer are compared based on their magnitude, to retrieve the largest magnitude.

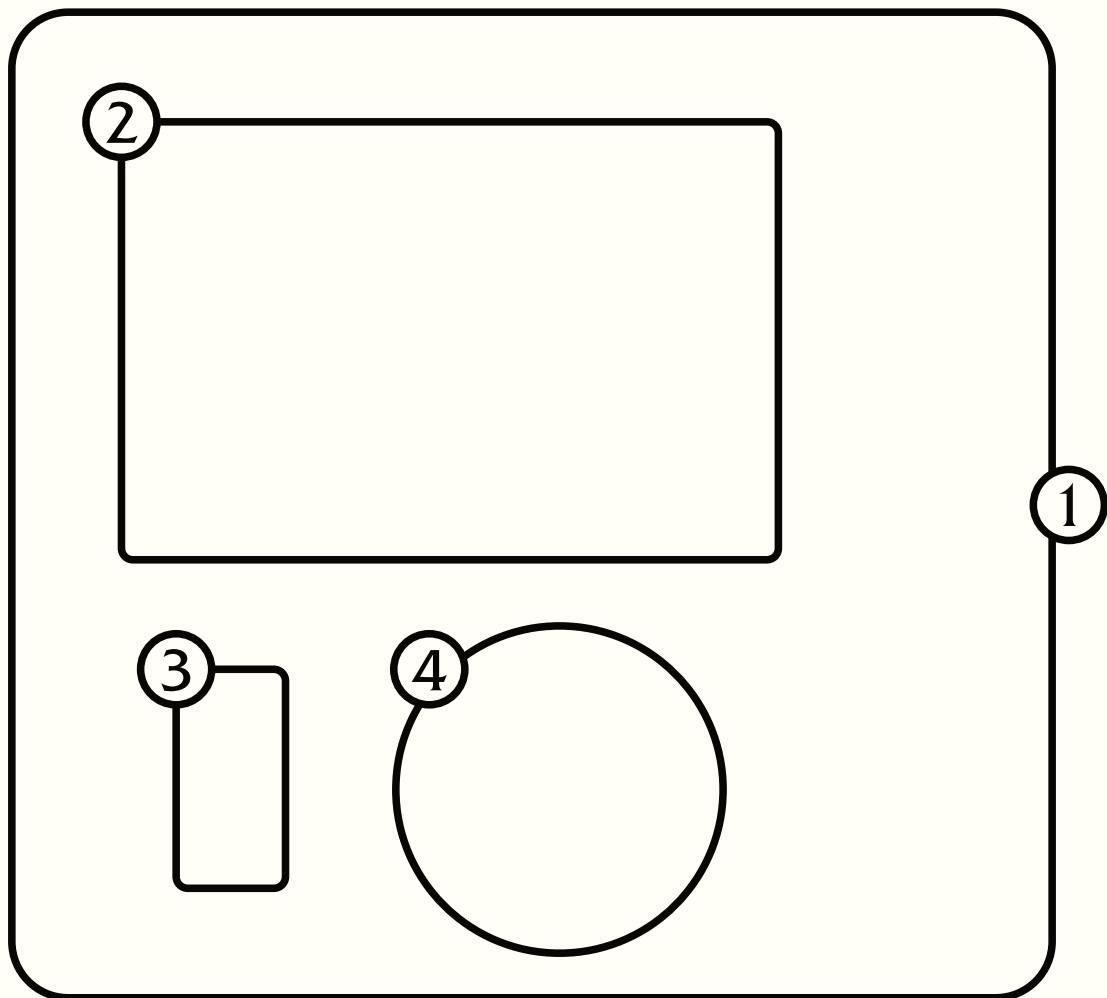
Audio values are stored in the internal buffer based on two possible modes;

- Immediate - only the most recent 128 received values are stored
- All Elapsed - all received values are stored. Stored values are removed only when a calculation occurs



# Interface

1. Audio Signal Input  
The audio signal input connection  
  
CUIS type: Orange
2. Value Gauge  
A simple pin-based value gauge which displays numbers between 0 and 1
3. Storage Mode Switch  
Used to select between the two storage modes; Immediate and All Elapsed
4. Sample Rate Dial  
This dial is used to select the number of calculations perform every second by the device







# Unit Specifications

