



**RDL**<sup>®</sup>  
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## STICK-ON<sup>®</sup> SERIES

### Model STM-2 Mic to Line Level Preamplifier

#### ANYWHERE YOU NEED...

- Low-Noise Mic Preamp
- Adjustable Output Levels
- High or Low Impedance Mic Inputs
- To Convert Line Inputs to Mic Inputs
- Two Balanced or Unbalanced Outputs
- Separate Phantom Supply Input
- RF Filtered Inputs and Outputs
- Low Distortion Performance



#### *You Need The STM-2!*

The STM-2 is part of the group of STICK-ON products from Radio Design Labs. The STM-2 is a quality microphone preamplifier designed for use in commercial sound, broadcast, and recording applications. The STM-2 is very flexible with gain adjustment from 0 to 65 dB, two balanced or unbalanced outputs, and available phantom supply input! Its compact size makes it ideally suited to locations where a larger or heavier preamp cannot be used. Its performance makes it the best choice, even when larger preamps could be used! The single-ended supply input makes STM-2 the ideal choice for both permanent and mobile equipment installations. Some features of the STM-2 are:

- Balanced microphone input accepts impedances from 150 to 600  $\Omega$
- Input circuitry permits connection of unbalanced microphones, or 4 or 8  $\Omega$  speakers in intercom or monitoring applications
- Variable gain (up to 65 dB) and ample headroom allow operation with any mic
- Phantom supply input terminals allow connection of external power when STM-2 is used with phantom powered microphones
- Supply input is single-ended and operates from 24 Vdc to 33 Vdc (12 Vdc at reduced headroom)
- Two separate outputs are provided for balanced operation
- No lugs required for reliable connections
- Convenience of STICK-ON package yields quick, efficient installation
- Use STM-2 in conjunction with other RDL STICK-ONS to make complete audio systems

Anywhere you need an adjustable mic to line preamplifier, STM-2 is the reliable and cost-effective solution!

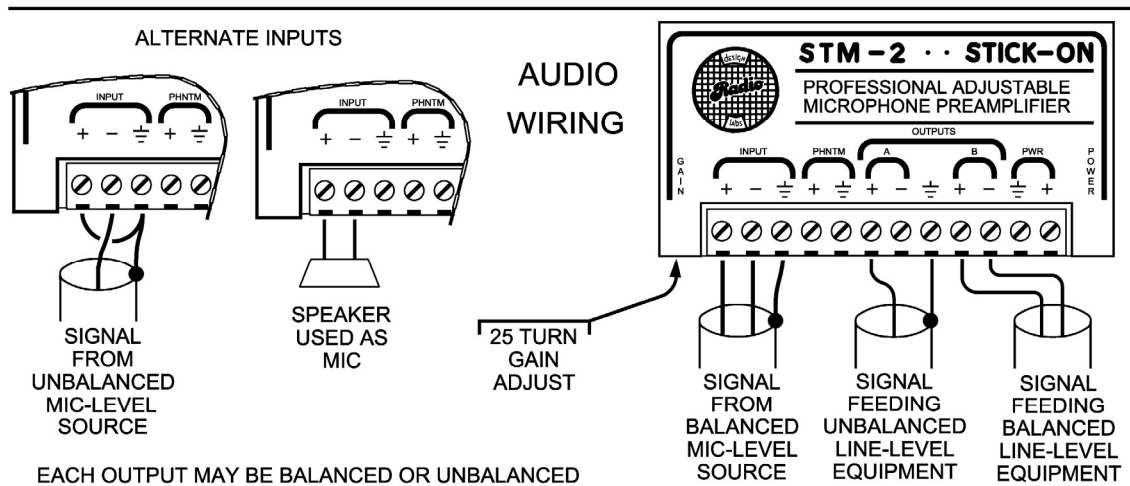
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## Model STM-2 Mic to Line Level Preamp

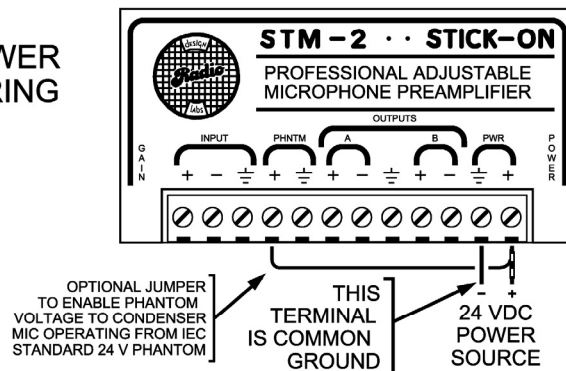
## Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4  
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



## POWER WIRING



**NOTE:** THE STM-2 WILL OPERATE (WITH REDUCED HEADROOM) ON SUPPLY VOLTAGES FROM 9 TO 23 VDC.

## TYPICAL PERFORMANCE

Input Impedance:	500 $\Omega$ balanced; 5 k $\Omega$ unbalanced
Phantom Voltage and Buildout:	24Vdc; IEC 1938: 1996-12, Internally filtered
Output Impedance:	150 $\Omega$ balanced to drive balanced or unbalanced lines of 150 $\Omega$ or higher
Output Levels:	+4 dBu balanced
Frequency Response:	50 Hz to 25 kHz (+/- 1 dB)
Gain:	Adjustable 0 to 65 dB
THD+N:	< 0.050%
CMRR:	> 60 dB (50 Hz to 30 kHz)
Headroom:	> 20 dB (24 Vdc supply); 14 dB (12 Vdc supply), Rel. +4 dBu balanced output
Power Requirement:	24 Vdc @ 25 mA, Ground-referenced (9 to 23 Vdc with reduced headroom and reduced phantom voltage)

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