



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] 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 35 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 Ω
- Input circuitry permits connection of unbalanced microphones, or 4 or 8 Ω 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!

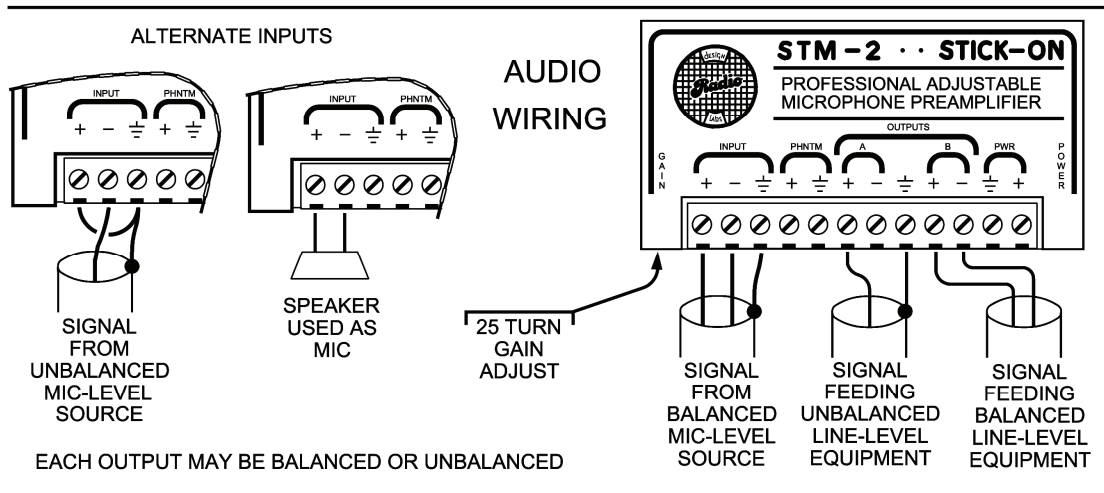
STICK-ON[®] SERIES

Model STM-2 Mic to Line Level Preamp

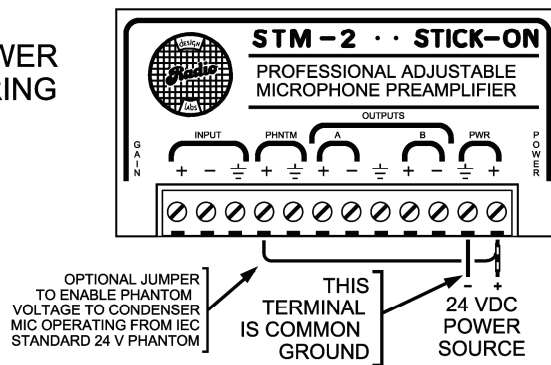
Installation/Operation



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 Ω balanced; 5 k Ω unbalanced
Phantom Voltage and Buildout:	24Vdc; IEC 1938: 1996-12, Internally filtered
Output Impedance:	150 Ω balanced to drive balanced or unbalanced lines of 150 Ω or higher
Output Levels:	+4 dBu balanced
Frequency Response:	50 Hz to 25 kHz (+/- 1 dB)
Gain:	Adjustable 35 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)

Radio Design Labs Technical Support Centers
U.S.A. (800) 933-1780, (928) 778-3554; Fax: (928) 778-3506
Europe [NH Amsterdam] (+31) 20-6238 983; Fax: (+31) 20-6225-287