



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON[®] SERIES

Model STM-2

Mic to Line Level Preamp

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 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!

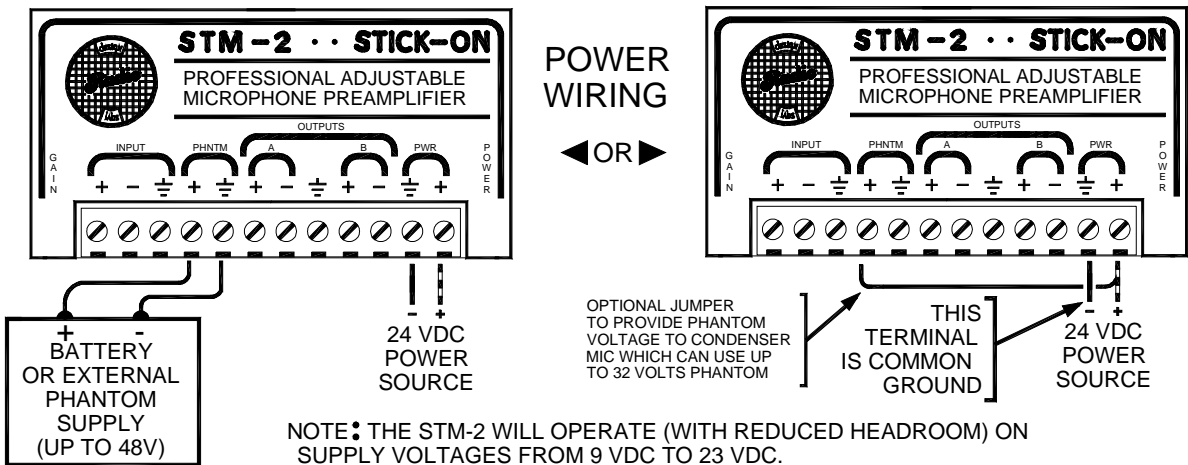
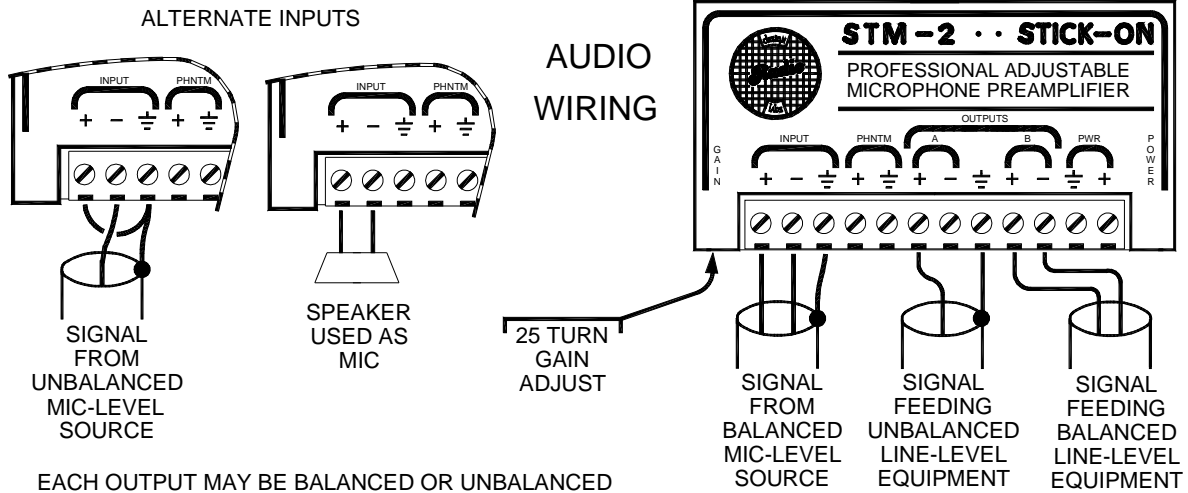
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Installation/Operation



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.



TYPICAL PERFORMANCE

| | |
|---------------------|--|
| Input Impedance: | 150 to 600 Ω balanced; 5 kΩ unbalanced |
| 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 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) |
| Power Requirement: | 24 to 33 Vdc @ 25 mA, Ground-referenced (9 to 23 Vdc with reduced headroom) |

Radio Design Labs Technical Support Centers

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