



RDL®
Radio Design Labs

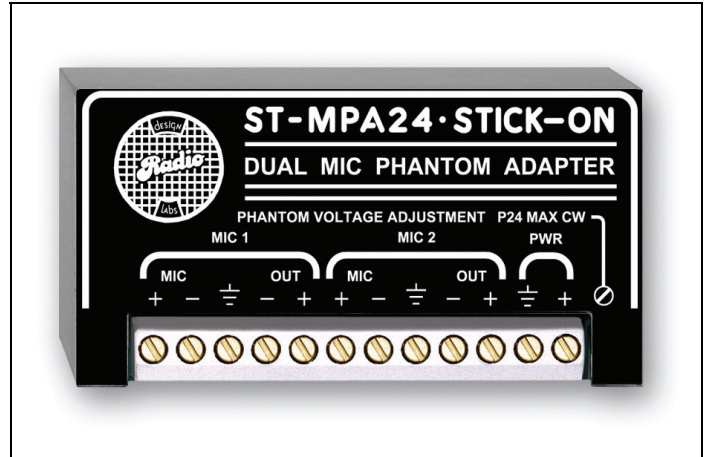
SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-MPA24

Dual Microphone Phantom Adapter

- Add Phantom Powered Mics to Standard Inputs
- Two Phantom Adapters in One Module
- 24 Vdc Fixed Phantom Voltage
- P24 per IEC 61938
- Phantom Voltage Adjustable to IEC Standard 24 Vdc
- Highly-Filtered Phantom Power
- Phantom Conversion with Full Frequency Response



The ST-MPA24 is a utility power amplifier in the convenient line of STICK-ON products. The durable bottom adhesive permits quick, permanent or removable mounting nearly anywhere, or it may be used with RDL's racking accessories. The ST-MPA24 allows two existing microphone inputs to be converted to phantom mic inputs for use with condenser microphones with the added convenience of STICK-ONs! STICK-ONs are designed, built and rated for continuous duty in professional A/V systems.

APPLICATION: The ST-MPA24 contains two identical phantom power circuits and a common power supply input. If only one mic input is to be converted for phantom operation, only one circuit needs to be used. Each circuit has a mic input and a mic output. Phantom voltage appears on each of the mic input terminals. There is no voltage on the mic output terminals. Therefore, the ST-MPA24 can convert any existing mic input into a phantom powered input.

Module operation is from a 24 Vdc ground referenced power supply. The ST-MPA24 has an internal pass transistor-regulator filter circuit which permits this incoming voltage to be adjusted to the desired phantom voltage, up to 92% of the supply input voltage. A multi-turn trimming potentiometer is provided to reduce the phantom voltage if desired. In the default fully clockwise position, the ST-MPA24 provides "P24" 24 Vdc phantom voltage conformant to IEC 61938.

In applications where microphone inputs are not equipped for phantom, the ST-MPA24 is the ideal way to add up to 24 Vdc phantom power without compromising sound quality. For installations requiring 48 Vdc phantom (P48), see RDL's ST-MPA48 Microphone Phantom Adapter and other RDL microphone products.

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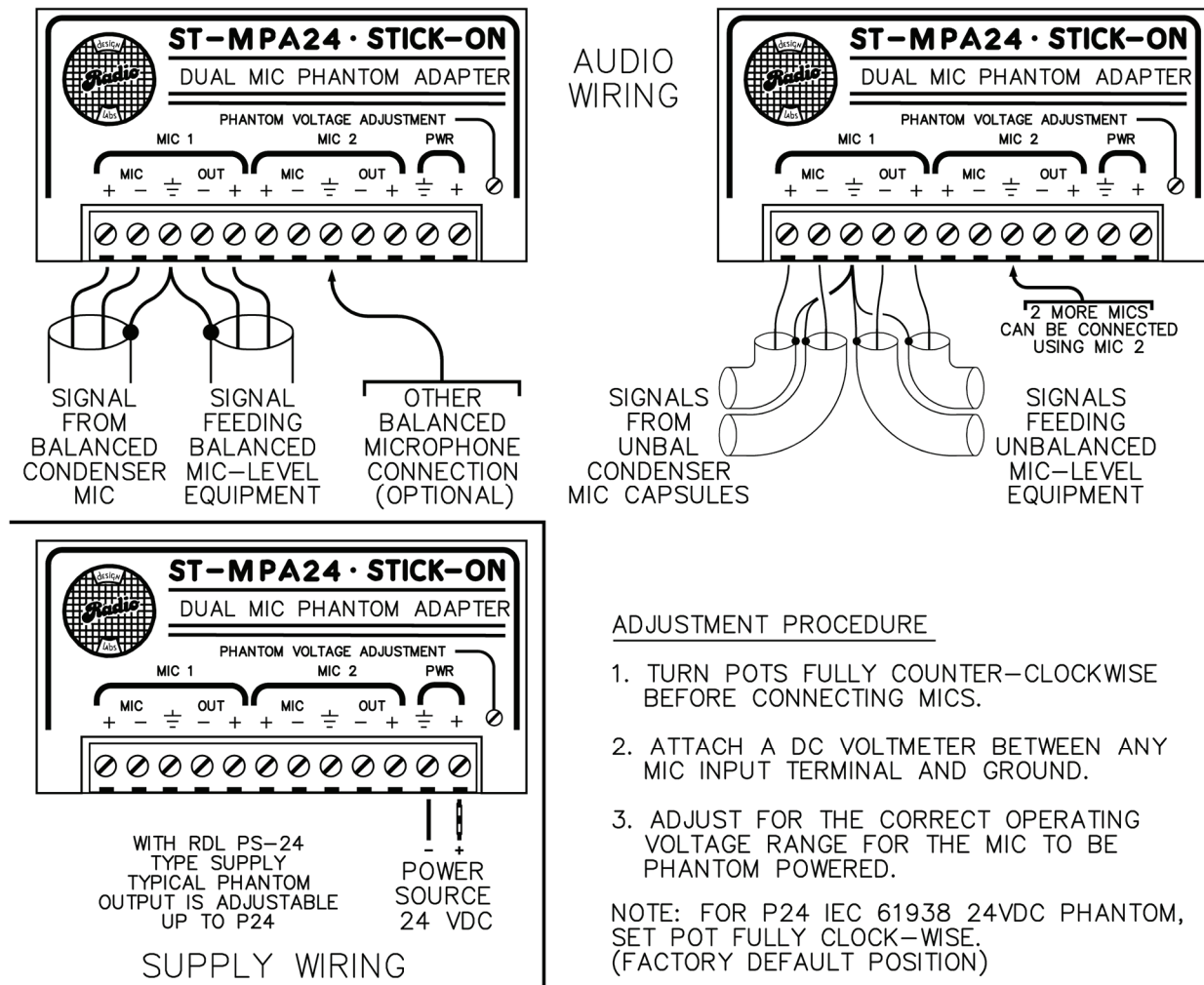
Model ST-MPA24

Dual Microphone Phantom Adapter

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

Channels:	2
Frequency Response:	20 Hz to 100 kHz (± 0.025 dB, 150 Ω source, 1 k Ω load)
Phantom Voltage:	P24, 24 Vdc
Standard for Phantom:	IEC 61938: 2013
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	GROUND-REFERENCED, 24 Vdc @ 35 mA (with 20 mA load)