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Agilent E3243A

4-Channel Microphone/Voltage Breakout Box

Product Overview



The Agilent E3243A 4-Channel, Microphone/Voltage Breakout Box

Transducer Signal Conditioning Accessory for the Agilent E1432A and E1433A VXI Digitizer Modules

This Breakout Box accessory is specifically designed to interface microphones (as well as voltage and 4 mA constant current power supply accelerometers) to Agilent's high performance E1432A and E1433A VXI Digitizer modules. It integrates 4 channels of signal conditioning in one box, reducing the count of transducer conditioning equipment needed for both small and large channel-count VXI systems. Applications include both acoustic and mechanical measurements. It has two input connector types per channel to match the intended transducer connection, as well as buffered outputs via BNC connectors for signal monitoring or recording.

The E3243A is dedicated for use with the E1432A and E1433A only and is designed for acoustic measurements by providing the conditioning necessary for pressure and free field microphones. It also provides conditioning for mechanical measurements where voltage or 4 mA constant current power supply accelerometers are to be used. Input connections for each channel are via BNC for voltage and 4 mA constant current power supply, and a 7-pin LEMO connector for microphones.

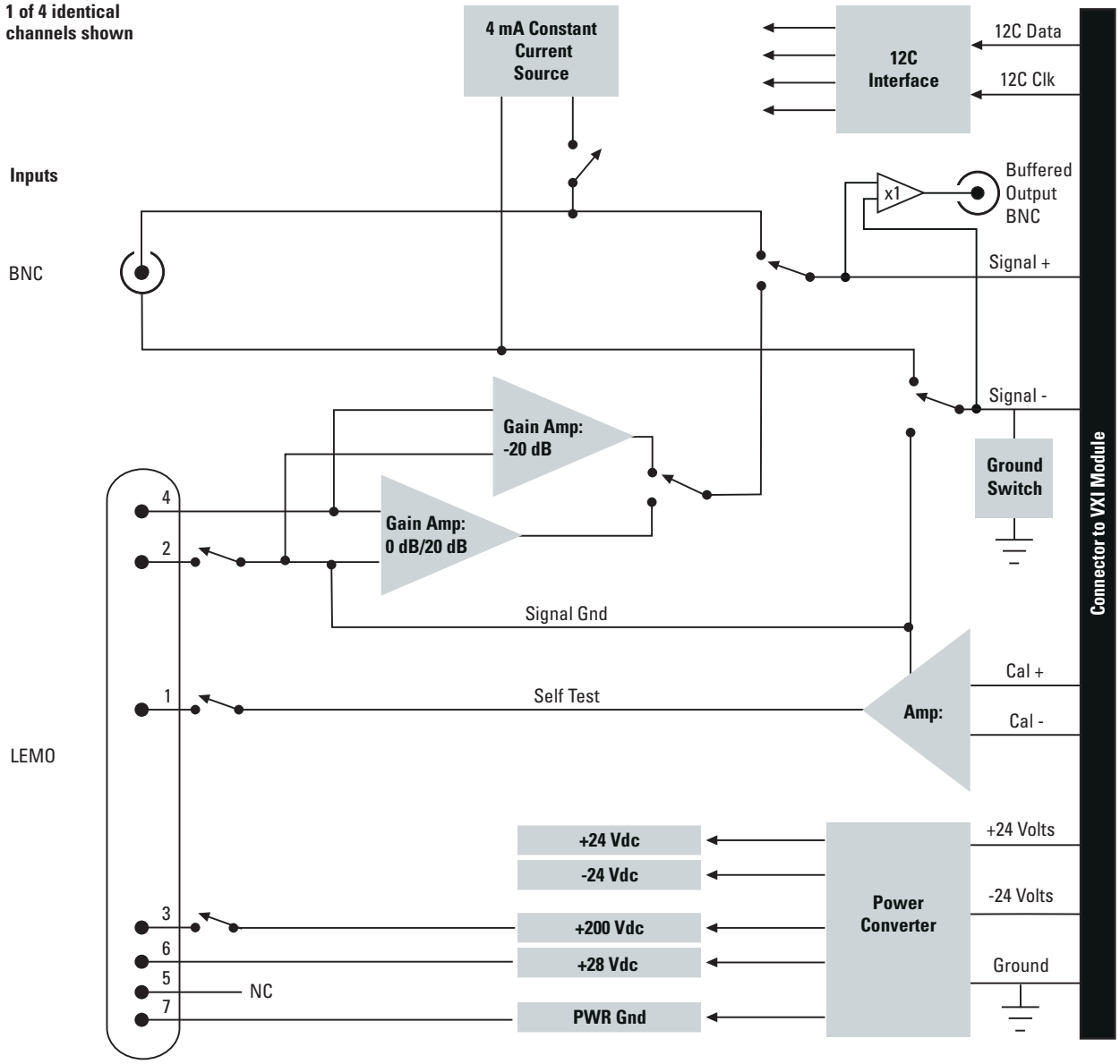
Remote Control

The E3243A is remote programmable allowing you to set up each channel's parameters through your application software. Each channel can be programmed for float or grounded input which connects the BNC shell to chassis ground, or allows for a differential input. Other programmable functions include gain setting and 4 mA constant current power supply on/off control.

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Figure 1
Agilent E3243A
Block Diagram
1 of 4 identical
channels shown



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Configuration and Connectivity Information

The E3243A 4-Channel Microphone/Voltage Breakout Box is available in only one configuration, and is designed for use only with the E1432A and E1433A VXI Digitizer modules. Supplied with the unit is a 2m cable for connecting to an E1432A or an E1433A VXI Digitizer module.

Warranty Information

The E3243A comes with a three-year warranty. During that period, the unit will either be replaced or repaired, at Agilent's option, and returned to the customer without charge. There is an option available at extra cost which extends the repair support to five years.

Accessories Available

A rack-mount kit is available which will allow two E3243A units to be installed side-by-side into a standard 19" system rack. Order Option AXR for every two units to be rack mounted.

General Characteristics for the Agilent E3242A

Number of channels	Four
Transducer connectors	One female BNC and 7-pin LEMO for each of 4 channels
Buffered Outputs	Each channel has a buffered output available on the rear panel via BNC connector
Cable to VXI module	One 2-meter cable
Mechanical dimensions	
Width	174 mm
Height	39 mm
Depth	190 mm
Weight	1.5 kg, not including cable

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Options

Opt. AF5	Extra 2 meter cable
Opt. AFL	20 meter cable
Opt. AXR	Rack mount kit

Ordering Information

Agilent E3243A	4-Channel Microphone/Voltage Breakout Box
Opt. AF5	Extra 2 meter cable
Opt. AFL	20 meter cable
Opt. AXR	Rack mount kit

Related Agilent Literature

Agilent E1432A/33B/34A Product Overview
Publication number 5968-8729E

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