

Motherboard Quick Start Guide

Welcome

Thank you for purchasing the LORD MicroStrain® Sensing Systems' [Motherboard](#) Multichannel Signal Conditioner Enclosure and its [DEMOD-DVRT®](#) or [DEMOD-DVRT®-TC](#) Signal Conditioning Cards.

This guide covers the following products:

Motherboards	Signal Conditioner Cards
MB-STD-4	DEMOD-DVRT
MB-STD-8	DEMOD-DVRT-TC
MB-STD-4-EURO	
MB-STD-8-EURO	



MB-STD-4



MB-STD-8

Assembly

The Motherboard itself requires no assembly. It has been previously assembled and tested with the signal conditioner cards at the factory. It is ready for use out of the box.

Power

The Motherboard is powered by a specialized external power supply which provides both 5 VDC and 12 VDC to the unit. Each Motherboard is shipped with this special supply. The Motherboard has no On/Off switch and the power supply acts as the switch. The power supply plugs into house current on the input side and into the 5-pin DIN connector on the rear panel of the Motherboard on the output side. A keyway insures proper mating of the male and female DIN connectors. Power supplies are shipped with either an 'American' wall adapter (ELPAC WM063-1950) or a 'EURO(pean)' wall adapter (ELPAC MED113TT).



LED

The Motherboard has a green LED indicator on its front panel. The LED illuminates when power is applied.

Signal Conditioning Card Connectors

Each DEMOD-DVRT[®] or DEMOD-DVRT[®]-TC Signal Conditioning Card has two connectors. The upper 4-pin LEMO connector connects to the DVRT[®] sensor cable supplied with the sensor. The lower BNC connector connects to a shielded coaxial (or other) cable running to your analog data acquisition equipment.



Channels

Motherboards may contain from 1 to 8 signal conditioning cards. These cards are organized from left to right as channels 0 through 7 and are labeled as such on the front panel. In addition, you will note that each channel has a colored plastic washer around its LEMO connector. These color codes are used to correctly match the DVRT[®] sensor with the signal conditioning card to which it has been calibrated.

Calibration

Every DVRT[®] sensor is paired and calibrated at the factory with its own signal conditioner card. Each DVRT[®] sensor and signal conditioner card pair is shipped with a Certificate of Calibration which should be consulted to insure that the pair is always connected and used together.

DVRT[®] Installation

LORD manufactures 5 categories of DVRT[®] Displacement Sensors with several model variations within each category. The table below will link you to further installation instructions for each category.

Category	Installation Instructions
Microminiature	http://files.microstrain.com/Micro_Sub_DVRT_Quick_Start_Guide.pdf
Subminiature	http://files.microstrain.com/Micro_Sub_DVRT_Quick_Start_Guide.pdf
Microminiature Gauging	http://files.microstrain.com/Micro_Sub_Gauging_DVRT_Quick_Start_Guide.pdf
Subminiature Gauging	http://files.microstrain.com/Micro_Sub_Gauging_DVRT_Quick_Start_Guide.pdf
Non-Contact	http://files.microstrain.com/Non-Contact_DVRT_Quick_Start_Guide.pdf

Congratulations!

You are off and running! LORD Support Engineers are always available by phone, email, web chat or SKYPE to assist you in any way we can.

LORD Corporation

MicroStrain Sensing Systems

459 Hurricane Lane, Unit 102 ph: 800-449-3878
Williston, VT 05495 USA fax: 802-863-4093
www.microstrain.com support@microstrain.com