

# DSB 1002/1003 SERIES PRODUCT DESCRIPTION

CTC switch box solutions allow for the monitoring of remotely mounted vibration sensors, which would otherwise be restricted to human access due to safety considerations.

The **DSB1002 Series Modular Switch Box** provides a 4, 8, 12, and 16 position switched output for dual output vibration and temperature sensors or biaxial accelerometers, for a total of 8, 16, 24, or 32 channels of measurement data respective to the model purchased.

The DSB1002 fiberglass modular switch box is used to convert the three-conductor wiring of up to 16 remotely installed dual output sensors to two switched BNC connectors and one switched three-pin MIL spec connector for portable data collection. BNC labeled "A" and the three-pin MIL provide output for vibration and the BNC labeled "B" provides output for temperature or vibration channel 2 measurements. Input wiring from each sensor is connected via quick-connect or screw terminal blocks. Each terminal block includes input for signal, temperature, negative and shield. The shield drain wire is earth-grounded via a ground stud that is mounted to the side of the fiberglass enclosure.

Additional switch box modules can be installed or removed after initial manufacturing and onsite installation, using the quick-release DIN rail clip. If continuous output is desired, select the DSB1003 Series. On all continuous output modules, a quick disconnect T-plug is available to easily connect and disconnect the input wiring.

Rated for NEMA 4X (IP66), the DSB1002/DSB1003 can withstand harsh environments including temperatures ranging from -58° to 180°F (-50° to 82°C). The box is also resistant to hose directed fluid and corrosion. A snap latch is installed on the door allowing the box to be sealed from the elements when not in use.

## ORDERING OPTIONS:



A. User Defined Input



C. Cord Grip Input



B. Conduit Fitting Input



# SWITCH BOXES VS. MODULAR SWITCH BOXES

## FEATURES COMMON TO BOTH ENCLOSURE OPTIONS

- ▶ Both provide a switched output to either a BNC jack or 2 pin MIL-Style connector
- ▶ The single output box will accommodate up to 12 single axis channels while the Dual Output box will accept up to 8 dual output channels, for a total of 16 channels of measurement
- ▶ Continuous output options available
- ▶ Both enclosures can be easily mounted on a variety of surfaces
- ▶ Both accept input from accelerometers, proximity probes, tachometers, and temperature probes
- ▶ Both enclosures offer quick release input terminal blocks
- ▶ Both are available in two options: fiberglass or stainless steel enclosure

## ADVANTAGES OF MODULAR SWITCH BOXES

*While the cost is slightly higher for the initial purchase of a partially populated modular box versus a similar standard box, Modular Switch Boxes offer increased flexibility:*

- ▶ The convenience of only having to purchase CTC parts JB907-1A for single output or JB930-1A for dual output boxes when adding additional channels
- ▶ No need to send the enclosure back to the factory to have the switch and board modified for the additional channels
- ▶ The flexibility of being able to move the module to a different enclosure should your needs change

