

## TDAS PLUS Level Trigger Device

Reliable external level trigger for repeatable T=0 when collecting data

### APPLICATIONS

Acceleration-based trigger for:

- HYGE acceleration sleds
- Vehicle crash testing
- Component testing
- Helicopter & aircraft
- Aerospace analysis
- Automotive safety
- Shock & Vibration

### PRODUCTS

Diversified Technical Systems designs and manufactures data acquisition systems, sensors, and software for beginning and advanced test professionals.

### TECH CENTERS

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The TDAS PLUS Level Trigger Device is self-contained, compatible with all data acquisition systems and offers autonomous level triggering of data collection and imagers.

### Features

- Can be used with any system or device capable of receiving a contact-closure event signal
- Small, crashworthy design suitable for mounting on sled or other dynamic testing device
- User-selectable features include G level, filter option and arm mode
- Includes user-replaceable external accelerometer and universal interface cable
- LED indicators for power and T=0
- Overvoltage, overcurrent, power input polarity and event overvoltage protection
- No software required

It is now possible to trigger your entire data acquisition system with the reliable, crashworthy, accelerometer-based TDAS PLUS Level Trigger Device (LTD). The unit provides two opto-isolated, contact-closure outputs when the user-selected acceleration threshold is exceeded. The TDAS PLUS LTD will initiate data collection or event trigger when used with TDAS PRO, TDAS G5, TDAS PLUS or SLICE equipment. The isolated output can also be used with any device designed to accept a contact closure (e.g., high-speed imagers).

Selector switches on the control panel include options for:

**G Level:** 0.5, 1.0, 2.0, 5.0, and 10.0 g

**Filter:** 50, 100, 200, 500, and 1000 Hz

**Arm Mode:** SAFE (disables output), Gs (threshold crossed), or EXT (enabled via external signal)

Other functional parameters include:

**LED Indicators:** Power and T=0

**Accelerometer:** Includes an MSI 4000A accelerometer (internal or external mounting options), and universal cable (unterminated for user customization)

**Interface Connector:** External arm input, 10-15 VDC, 50 mA power input with overvoltage, overcurrent, and reverse polarity protection (can be powered from a TDAS PRO SIM channel at 10 V excitation). Filtered and unfiltered acceleration signal outputs and two opto-isolated, contact-closure event outputs.



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DSH-018 (REV 03.2015)