



## HS-660 Accelerometer Cable & Bias Checker

**1. Description.** The HS-660 Cable & Bias Checker is a battery powered, hand-held unit designed to enable installation engineers to verify plant cabling in vibration monitoring systems. The unit provides constant current accelerometer power via a BNC connector and indicates correct accelerometer operation or cabling short /open circuits using a tri-colour LED. In addition, the accelerometer bias voltage is indicated on an LCD display. The battery compartment, containing a single 9V battery, is accessible on removing the rubber protective cover.

**2. Operation.** The HS-660 can be connected to multi-channel switch boxes via a BNC/ BNC coaxial lead, or to junction box terminals by use of the BNC lead adapter and the test probes provided. The centre BNC contact should be connected to the accelerometer power/signal wire and the BNC outer to the accelerometer 0V.

On switching on via the toggle switch, the LCD meter will indicate accelerometer bias voltage. The LED will be green if this bias voltage is between 5V and 15V. Bias voltages outside these limits indicate a faulty accelerometer. The LED will be amber for bias voltages less than 5V and red for bias voltages greater than 15V.

Cable short-circuits are indicated by an amber LED and 0V on the LCD meter. Open circuits are indicated by a red LED and a bias voltages greater than 20V.

The battery current is 35mA in normal operation which will allow many hours of continuous operation, however to preserve battery life, the unit should be switched off when not in use. A low battery condition is indicated on the LCD display when the battery voltage falls below 7.5V.

The LCD display can be calibrated, if required, via a potentiometer located on the rear of the display module. This is accessible on removal of the four case fixing screws.