

## CMCP-TKAT Portable Handheld Accelerometer and Cable Tester



### Features:

- Verifies Sensor Bias Voltage
- Verifies Cable Wiring
- LED Voltage Display
- OK, Short or Open LED Indicators
- 9V Battery Powered
- BNC Cable For Direct Connection
- Test Leads for Junction Boxes
- Includes Carry Case and Spare Battery

### Technical Performance

Input:  
Display:  
LED:

Constant Current Accelerometer or Velocity Sensor  
Indicates the Sensors DC Bias Voltage  
Green: OK  
Amber: High Bias Voltage / Open Cable Connection  
Red: Low Bias Voltage / Shorted Cable  
BNC Socket  
2' BNC to BNC Cable and Clip On Leads

Connection:  
Leads:

### Electrical

Power:  
Battery Life:  
Low Battery Indicator:  
EMC:

9VDC Battery  
3 Hours (1xPP3)  
Low Battery Indicator on Display  
EN61326-1:2013

### Mechanical

Case Material:  
Dimensions:  
Weight:

Plastic with Rubber Molding  
3"x5"x12 with Cable Connected  
9.5 Oz.

### Ordering Information:

CMCP-TKAT

Accelerometer Test Kit



## **Instructions:**

### **Description.**

The CMCP-TKAT 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-color 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.

### **Operation.**

The CMCP-TKAT 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 center 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 voltage 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.