



TEST & MEASUREMENT PRODUCTS



PS03A

Accelerometer Verification Meter

Product Manual

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INTRODUCTION

The PS03A displays the status of the connected IEPE accelerometer. This reading is intended as a basic diagnostic of sensor power and wiring integrity.

SPECIFICATIONS

Specifications	Standard	Metric
Electrical		
Input	4x 1.5 V "C" Cell Battery	
Battery Life	65 Hours*	
Input Connector	BNC Jack	
Output Connector	BNC Jack	
Sensor Supply Current	2 mA	
Environmental		
Temperature Range (Operating)	14 °F to 130 °F	-10 °C to 54 °C
Temperature Range (Storage)	-4 °F to 140 °F	-20 °C to 60 °C
Enclosure		
Dimensions	7.43 x 4.95 x 1.88 in.	188.7 x 125.7 x 47.6 mm
Weight (Battery Included)	24.3 oz	690 g
Enclosure Rating	IP40	
Voltage Indicators		
Green	3-17 V - Normal	
Red	<3 V - Short	
Yellow	>17 V - Open	

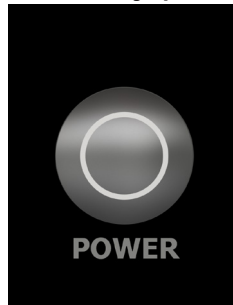
*Estimated battery life from an alkaline battery while a sensor is connected to the unit.



OPERATION

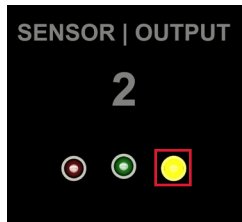
Turning on the PS03A

Turn on the PS03A Verification Meter by pressing the power button.



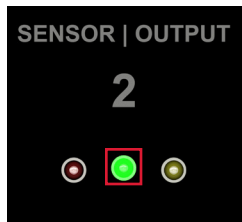
Circuit Integrity (LED Readout) – Diagnostic Check List

Open Circuit: Yellow Light



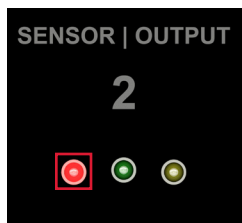
- A) The cable connector is not connected properly
- B) The cable is open circuit (cable is broken or not connected)
- C) The accelerometer is non functioning properly
- D) The polarity is reversed. Check your wiring in your junction box or the wire leads of the cable. Typical voltage display for an open circuit will be above 17 volts.

Normal: Green Light



Indicates that the accelerometer is connected properly and that the accelerometer is within operating specifications. Typical voltage display will be between 3 and 17 volts. Operating voltage for most sensors is between 10-14 volts.

Short Circuit: Red Light

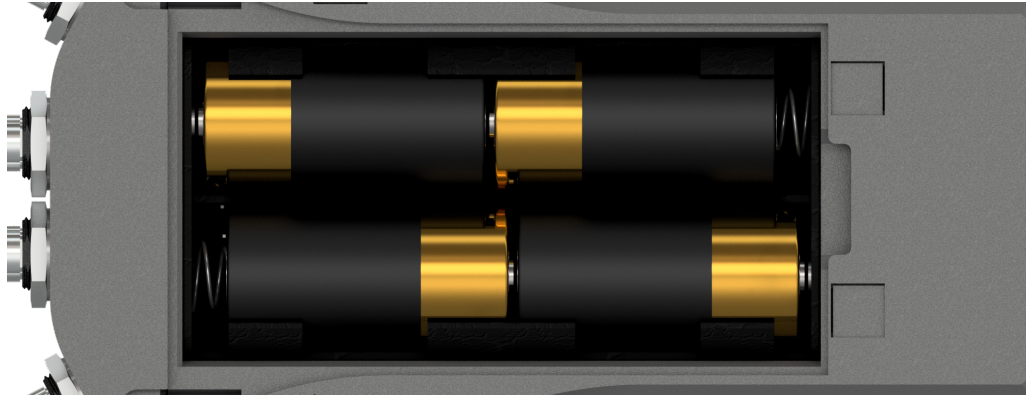


- A) Wires in the switch box or cable connector are touching.
 - B) Contamination in the connector
- Typical voltage for a short circuit will be below 3 volts.

MAINTENANCE

Battery Life

The PS03A uses four 1.5V "C" cell batteries that are installed in the battery compartment on the rear of the case.



Typical life for a fresh set of alkaline batteries will be 93 hours with no sensor attached and 65 hours with a sensor attached.

General

Aside from battery replacement, there are no customer replaceable parts. The device should provide trouble-free continuous service under normal operating conditions.

Calibration

The PS03A is factory calibrated prior to shipment. This calibration verifies the supplied current, the maximum excitation voltage, and the accuracy of the voltage using calibrated test equipment. If a new calibration is desired, please submit an RMA request prior to shipping the unit to CTC.

WARRANTY & REFUND

Please visit www.ctconline.com to view a complete recapitulation of our warranty and refund policies.

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