

Order Number

Serial Number

## PRODUCT/TEST MANUAL

**2V151K1**

**POTENTIAL SELECTOR**

<b>Issue Level</b>	<b>Date</b>	<b>Summary of Changes</b>
A	05/02/1997	Initial issue.

Due to RMS continuous product improvement policy this information is subject to change without notice.

<b>Document updated</b>	<b>Checked</b>	<b>Registered</b>	<b>.pdf file created</b>	<b>.pdf uploaded to web site</b>

**1. DESCRIPTION OF OPERATION**

The 2V151 is designed to provide an alarm if any of the incoming voltage supplies are lost. The relay will remain in the dropped out condition until the faulted phase returns to normal .

**2. SPECIFICATIONS**

Auxiliary Supply            110 volts AC 50 Hz 4 Wire

**3. TEST EQUIPMENT REQUIRED**

Three Phase adjustable Supply  
 Digital Multimeter

**4. ASSOCIATED DRAWINGS**

Refer to type card

**5. HIGH VOLTAGE TESTING**

- a) Apply 2KV 50Hz test for 1 minute between terminal Groups A and B.
- b) Apply three 5KV 1/50 impulses of each polarity between terminal            Groups A and B.

**Group A**

All terminals

**Group B**

Frame

**6. CALIBRATION & TEST PROCEDURE**

- a) Apply output of AC source to terminals 3 & 4 use a voltmeter to monitor this voltage. Slowly increase volts until relay A (RLA) picks up, this should be in the range of 80 - 100 volts. Record reading. Adjust relay to obtain required pickup.

ACTUAL

- b) Reduce voltage slowly and not dropout of RLA, this should be in the range of 60 - 65 volts. Adjust relay to obtain the correct dropout.

ACTUAL

- c) Remove AC source from terminals 3 and apply to terminal 5 use a voltmeter to monitor this voltage. Slowly increase volts until RLB picks up, this should be in the range of 80 – 100 volts. Record reading. Adjust relay to obtain required pickup. Dropout voltage of RLB is not important.

ACTUAL

- d) Connect the AC source via a timing device and connect the contacts of RLB to measure its dropout time on removal of the input voltage. The time delay should be approximately 500 mS +/- 10%. Record result.

ACTUAL

**6. CALIBRATION & TEST PROCEDURE (Cont)**

e) Check that the relay is electrically sound and mechanically robust as per Standard Inspection & Test Schedule 903-000-026.

PASS

TESTED BY : \_\_\_\_\_ DATE : \_\_\_\_\_

### 8. CONNECTION DIAGRAM

