

Order Number

Serial Number

PRODUCT/TEST MANUAL

2V530K4

AC Voltage Sensing

Issue Level	Date	Summary of Changes
A	26/03/1999	Initial issue.

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

Document updated	Checked	Registered	.pdf file created	.pdf uploaded to web site

1. DESCRIPTION OF OPERATION

The 2V530 is a dual element voltage sensing relay. The output contacts will change state if the sensing voltage exceeds set limits. If the sensing voltage falls below 96% the relay will drop out. The output relays used are the robust 6R type as used when high switching capacity is required.

2. SPECIFICATIONS

Sensing Voltage	75 - 150 volts AC
Hysteresis	96% nominal
Output contacts	3 changeover per element internally wired as per drawing T14/25/577A

3. TEST EQUIPMENT REQUIRED

Adjustable AC Supply
Digital Multimeter
HV test equipment

4. ASSOCIATED DRAWINGS

660-130-201	Schematic Diagram
660-130-300	Loading Diagram

5. HIGH VOLTAGE TESTING

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

<u>Group A</u>	<u>Group B</u>
9,10,11,12	3 - 8,13,15,16,18,frame
All terminals	Frame

6. CALIBRATION & TEST PROCEDURE

- Set dial knob to maximum setting - 150 VAC
- Apply 150 volts to terminal 9 & 10
- Adjust R2 on PCB1 until relay 1 picks up, record results
- Set dial knob to minimum setting - 75 volts
- Adjust R16 until relay 1 just picks up, record results
- Repeat above steps until scale is calibrated.
- Repeat steps a) through f) for relay 2

Minimum	Maximum	Nominal	Relay 1	Relay 2
142.5	157.5	150.0		
71.25	77.25	75.0		

6. CALIBRATION & TEST PROCEDURE (Cont)

h) Check hysteresis is between 94 & 98% record results

Minimum	Maximum	Nominal	Relay 1	Relay 2
94 %	98 %	96 %	<input type="text"/>	<input type="text"/>

7. GENERAL & FUNCTIONAL

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

PASS

TESTED BY: _____

DATE: _____

