

Order Number

Serial Number

PRODUCT / TEST MANUAL

2V630K7

AC VOLTAGE SENSING RELAY

Issue Level	Date	Summary of Changes
A	12/04/1996	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. BROAD DESCRIPTION

The 2V630K7 is a Eurocard voltage measuring module. It is designed to fit the standard 483mm rack as used by Powerlink. Its application is for use in the metering division of Powerlink. The unit is calibrated to have a fixed pickup of 88 volts nominal and a drop out voltage of 75 volts nominal. The module is designed to pass the Insulation and high frequency disturbance tests as required by AS 2481 and BS 142.

2. SPECIFICATION

Sensing Supply Burden (at 110 V)	3.3 VA
Frequency Tolerance	-2% to +2% of 50Hz
Ambient Temperature Range	-5°C to 55°C
Accuracy	+/- 1 V at 88V
Dropout/Pickup Ratio	85% Nominal
Operate Time	<600ms
Release Time	<600ms

Output Relay Contact Ratings

Make and Carry Continuously

3000 VA AC resistive with maximums of 660 Volt and 12 Amp
3000 VA DC resistive with maximums of 660 Volt and 12 Amp

Make and Carry of 0.5 Second

7500 VA AC resistive with maximums of 660 Volt and 30 Amp
7500 VA DC resistive with maximums of 660 Volt and 30 amp

3. TEST EQUIPMENT REQUIRED

AC Variable Supply
High Voltage Test Equipment
Digital Volt Meter

4. ASSOCIATED DRAWINGS

660-130-201	Circuit Diagram - PCB Sensing
660-130-300	Loading Diagram - PCB Sensing

5. HIGH VOLTAGE TESTING

- a) Apply 2KV RMS 50 Hz between all terminals and frame for 1 minute.
- b) Apply 3 5KV 1/50us pulses of each polarity between all terminals and frame and across the input sensing circuits.

6. CALIBRATION & TEST PROCEDURE

- a) Apply 88 volts to input and adjust R2 until relay picks-up.

<u>MIN</u>	<u>MAX</u>	<u>NOM</u>	<u>ACTUAL</u>
87	89	88	<input type="text"/> V

- b) Apply 75 volts to input and adjust R16 and have R18 anti-clockwise until relay drops out.

<u>MIN</u>	<u>MAX</u>	<u>NOM</u>	<u>ACTUAL</u>
74	76	75.0	<input type="text"/> V

7. GENERAL & FUNCTIONAL

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

Refer to drawing 165 630 107