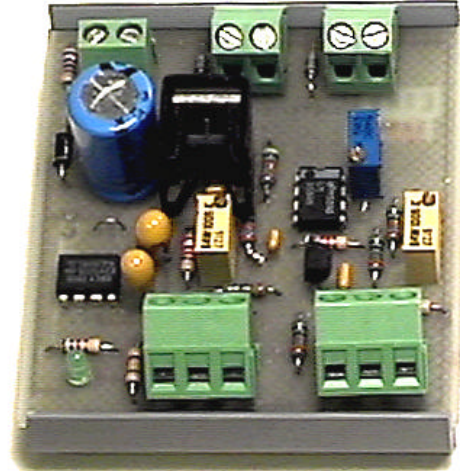

VOLTAGE and RESISTANCE INTERFACE

FEATURES:

- ◆ Fast and easy wiring.
- ◆ Wide I/O voltage span scaling.
- ◆ Low excitation current.
- ◆ Output offset adjustment.
- ◆ Low cost, compact size.


APPLICATION:

The ETRV board is used to interface variable resistance (potentiometer) or any DC voltage to a generic Energy Management System.

Typical applications include remote set point adjustment, level control interfacing, actuator positioning and/or input voltage scaling for different signal levels (i.e. 100 mV to 0-5 VDC etc.)

SPECIFICATIONS:

Power: 24 VAC, 40 mA

Input: Factory set ; *Variable resistance* , 2 or 3 wire potentiometer; typical value 5 k Pot .excitation 2.5 VDC.
DC voltage ; 100 mV to 15 VDC.

Output: Factory set; any DC voltage between 3 VDC and 22 V with zero offset, if required

Accuracy: Better than 1.0 % FS .

Indication: Power supply.

Mounting: PC board with snap track TR-2 (2.75" wide); L=2.25"

PRODUCT DESCRIPTION:

The ETRV board provides a convenient way to interface variable resistance (potentiometer) or various low voltage DC signals with a generic Energy Management System.

This two channel board provides precision excitation for the variable resistor input and generates output voltage proportional to the resistance changes. If DC voltage inputs are specified, the board may be calibrated for any input voltage span from 100 mV to 15 VDC. The output voltage span can be calibrated for the most common values, practically between 3 and 22 VDC. The output 'zero' value can be offset to provide a biased output (i.e. 1-5 VDC).

The ETRV is factory configured for voltage input or the resistor input. As a voltage re-scaling unit it is similar to ELKOR's GIC08 and GIC22 boards. The input/output parameters should be specified at the time of ordering.

ORDERING INFORMATION:

ETRV,input,output - i.e ETRV, 5k, 0-5V describes a typical product with the 5 k input potentiometer and a 0-5 VDC output.