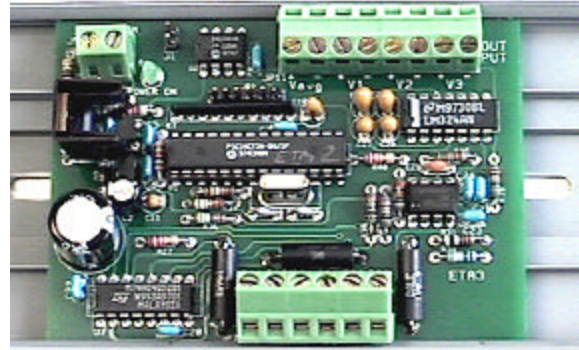


3 PHASE CURRENT TRANSDUCER /w ANALOG OUTPUTS

FEATURES:

- ◆ True RMS, accurate measurements.
- ◆ Four Analog Outputs (0-5 VDC).
- ◆ Supports inexpensive current transformers and standard 5 A CTs.
- ◆ Compact Size, Easy Wiring & Mounting.
- ◆ Ideal for Control and Energy Management Applications.



APPLICATION:

The ETA3.BRD transducer offers inexpensive yet accurate true RMS monitoring of AC current in three independent circuits or one 3 phase circuit.

This unique product is ideal as a precision AC load transducer for Control and Energy Management applications.

The ETA3.BRD combined with inexpensive current transformers provides a convenient tool for accurate load monitoring in any electrical equipment.

<i>Power Req.:</i>	24 VAC, 4 VA
<i>Current Inputs:</i>	Standard CTs, 5A or 1A ; ELKOR Monitoring Current Transformers (MCTs): MCT1 up to 200 A, wire window 3/4" MCT2 - 300 A, wire window 1.25". Other low VA current sensors available.
<i>Output:</i>	Four 0-5 VDC analog outputs; 3 proportional to three input currents and averaged current $\{(i1+i2+i3)/3\}$.
<i>Accuracy:</i>	TRMS, 0.5% FS, output resolution 10 bits.
<i>Indication:</i>	Power - green LED.
<i>Dimensions:</i>	L= 3.75" W = 2.75" (95 x 70 mm)
<i>Mounting:</i>	Snap-track 2.75" (provided).

PRODUCT DESCRIPTION:

The ETA3.BRD is a microprocessor based 3 phase precision current transducer (on PC board) that performs true RMS current measurements in one 3-phase circuit or in three independent AC circuits.

The unit supports standard current transformers (5A or 1A) but it also utilizes a variety of inexpensive current sensors which provide safe mV signal (noshunts necessary). These sensors include split core CTs and small current rings that may be applied to the secondary wires of the existing 5 A CTs.

The ETA3.BRD measures true RMS current in each of the three inputs. The three analog outputs (V1, V2 and V3) provide DC voltage proportional to the RMS current in the corresponding input while the fourth output (V4) is proportional to the averaged current $\{I_{avg} = (I1+I2+I3)/3\}$. Standard output voltage is 0-5 VDC.

The ETA3.BRD is designed as an OEM component for the HVAC market. It is powered by 24 VAC and mounts in 2.75" wide vinyl snap track (provided). Quality angular connectors allow for fast installation and testing.

This product is functionally similar to Elkor's ETM3.ANL transducer.

ORDERING INFORMATION: **ETA3.BRD -** CT type - Full Span Calibration

i.e ETR.BRD - MCT1 - 100A indicates board c/w 3 MCT1 Current Sensors and calibrated for 100 A Span (5 V = 100 A)