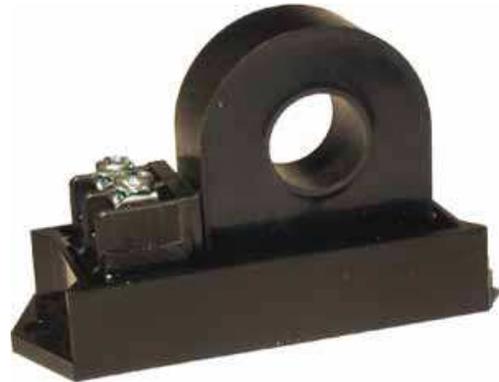


4 - 20 mA LOOP POWERED CURRENT TRANSDUCER

FEATURES:

- ◆ Highly accurate, true RMS measurement. Compatible with SCRs and VFDs
- ◆ Self powered from the 4 - 20 mA loop.
- ◆ Robust construction, compact size and easy wiring.
- ◆ Ideal for Control and Energy Management applications.



APPLICATION:

The *i-Snail*[®]-A transducer offers inexpensive yet accurate true RMS monitoring of AC current in one circuit.

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

Combined with a standard 5A CT the loop powered *i-Snail*[®]-A provides a convenient tool for accurate load monitoring in any electrical equipment.

PRODUCT DESCRIPTION:

The *i-Snail*[®]-A is a precision current transducer that performs true RMS current measurements in one AC circuit wired through an interfacing CT mounted on the top of the enclosure.

The *i-Snail*[®]-A may be ordered for various current ranges. The 0-5A and 0-10A current ranges feature a very high accuracy CT providing 0.3% accuracy (full scale). Other standard ranges include 25A, 50A and 100A. The 5A calibrated *i-Snail*[™]-A can be applied to the secondary wire of a 5A CT thus extending the metering range as required.

The *i-Snail*[®]-A is powered from the 4 -20 mA current loop (it acts as a 'two wire loop device'). It will accept a wide range of loop excitation voltages, typically 24 VDC. The unit is hermetically potted in a small plastic enclosure equipped with two mounting holes. A barrier strip terminal is provided for the output wiring.

The *i-Snail*[®]-X does not include a built in CT and is equipped with spade connectors allowing remote installation of various Elkor miniature CTs (MCTx, MSxxx and MSCTx series).

SPECIFICATIONS:

<i>Power:</i>	Standard 4-20 mA loop; voltage 8 - 35 VDC
<i>Current Input:</i>	Wire current input through CT up to calibrated Range. Unit may be wired off a secondary 5A CT for higher input ranges.
<i>Output:</i>	4-20 mA loop (sinking); max. impedance 750 ohm @ 24VDC (barrier strip terminal provided).
<i>Accuracy:</i>	TRMS, 0.3% FS for 0-5A & 0-10A ranges, 0.5% for other ranges (50 to 400Hz AC systems).
<i>Enclosure:</i>	Potted plastic box L=3", W=1.1", H=0.4" + CT height, panel mount ready. Interfacing CT permanently attached. Dielectric test (input/output) - 4 kVRMS.
<i>Environment:</i>	-40°C to +65°C, 0-95% RH non-condensing.

Input Range	Part Number	Accuracy (full scale)	Window Size	Maximum Wire Size
0-5A	<i>i-Snail-A-5</i>	0.3%	6.9mm (0.272")	AWG #10
0-10A	<i>i-Snail-A-10</i>			
0-25A	<i>i-Snail-A-25</i>	0.5%	14.5mm (0.570")	AWG #2
0-50A	<i>i-Snail A-50</i>			
0-100A	<i>i-Snail-A-100</i>			
Universal (MCTx or MSCTx)	<i>i-Snail-X</i> (CT Type and full scale must be specified)	See MCT, MS and MSCT series specifications		