



DC Tolerant Current Transformers for Electronic Watt-Hour Meters

Falco is pleased to announce a new standard line of toroidal current transformers with DC current immunity for electronic watt-hour meters. The intended applications include single and poly-phase meters.

These transformers comply with IEC61036/62052 standards for regulation of electronic watt-hour meters in the EU, USA/Canada and Australia as per statutory specifications. Accuracy is not affected by DC influence due to amorphous core material used; thus these transformers exhibit good linearity in amplitude and phase angle errors with suggested burden resistors.

The transformers are encapsulated into recognized plastic housings and epoxy potted to extend product life.

FEATURES AND BENEFITS:

- Current range from 20 ADC to 150 ADC (up to 480Amps peak)
- Accuracy transformer class 1.0 IEC 10636 for Electronic Watt-Hour meters
- Typical turns ratio primary to secondary of 1:2500 with 0.2% tolerance
- Amplitude error less than 0.1%
- Phase angle error less than 1.0%
- Rated Voltage 120/220Vac and 50/60 Hz
- Thermal class 130 °C
- Encapsulated epoxy finishing

APPLICATIONS

As technology has advanced and costs have declined, the popularity of the electronic watt-hour meter has increased. As a consequence, the traditional electro-mechanical "disc" meter has started to be replaced by the electronic meter in residential applications. Some of the most obvious advantages of the electronic meter are power consumption accuracy, quick data collection, pre-paid control and remote programming.

Falco Electronics is a worldwide leader in the design, manufacturing and distribution of current transformers for the electronic metering industry. Falco has been serving the major OEM's and subcontractors in USA, Europe and Asia for several years. Falco has been working closely with the leading R&D teams to meet the demands of emerging technologies.