

Model 936A Reference Current Transformer



The Arbiter Systems[®], Inc. Model 936A Reference Current Transformer provides laboratory grade accuracy in a small, portable, ruggedized case, making it ideal for field use. Multiple ratios of 1200:5, 1000:5, 800:5, 600:5 are selectable via a front panel switch. The guaranteed accuracy over the full input range and operating conditions is 0.02% ratio and 0.01° phase (traceable to NIST), ideal for calibrating other current transformers.

The Model 936A uses an active transformer to achieve the high accuracy needed for a primary reference. This design incorporates a dual core toroid with an amplifier aided second stage. The active circuitry reduces the sense transformer core flux to zero and produces an accurate output current independent of burden. The Model 936A was designed primarily for use with the Model 935A Current Source and the Model 931A Power Systems Analyzer to calibrate current transformers used with the Model 1133 Power Sentinel. The Model 936A's multiple ratio selections allow other current transformers to be tested and calibrated across their entire operating range.

I/O Configuration

Input

Input Range	1 to 1200 Arms
Current Ratios	1200:5, 1000:5, 800:5, 600:5

Output

Current	5 Arms maximum
Voltage	8.5 Vrms maximum

Power Requirements

External Power

Range	85 to 264 Vac, 47 to 440 Hz, 15 VA max. 110 to 250 Vdc, 15 W maximum
Safety	Designed to meet UL, CSA, VDE Standard
Inlet	IEC-320 with fuse and mating cordset. Specify option P01-P10.

General

Physical

Case Size	205 x 305 x 225 mm (8 x 12 x 8.75 in.) 483 x 483 x 483 mm (16 x 16 x 16 in.), shipping
Weight	5.8 kg (12.8 lbs) maximum
Sense Transformer	55 mm (2.125 in.) ID Nominal

Environmental

Temperature	Operating: 0° to +40° C Nonoperating: -40° to +85° C
Humidity	Noncondensing