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

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Range</td>
<td>Current</td>
</tr>
<tr>
<td>1 to 1200 Arms</td>
<td>5 Arms maximum</td>
</tr>
<tr>
<td>Current Ratios</td>
<td>Voltage</td>
</tr>
<tr>
<td>1200:5, 1000:5, 800:5, 600:5</td>
<td>8.5 Vrms maximum</td>
</tr>
</tbody>
</table>

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 55 mm (2.125 in.) ID Nominal Transformer

Environmental

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

Humidity Noncondensing