

TD1090 Through-Core AC I/V Converter



1. Summary

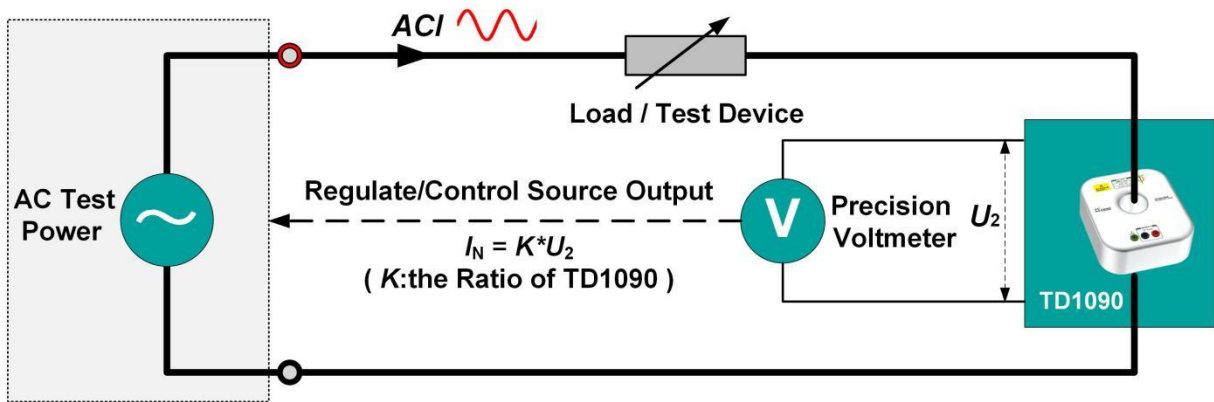
TD1090 through-center AC **I/V converter** uses the **through-core** measurement method to convert AC high current into small voltage, realizing accurate measurement of AC high current, which can be applied to calibrating AC high current sources, current transformers and other devices.

2. Features

- Nominal input current: 1 kA or 2 kA
- Nominal output voltage: 1 V
- Measurement frequency: 40 Hz ~ 400 Hz
- Accuracy: Class 0.005 or Class 0.01
- Through-core measurement
- The primary input is galvanically isolated from the secondary output

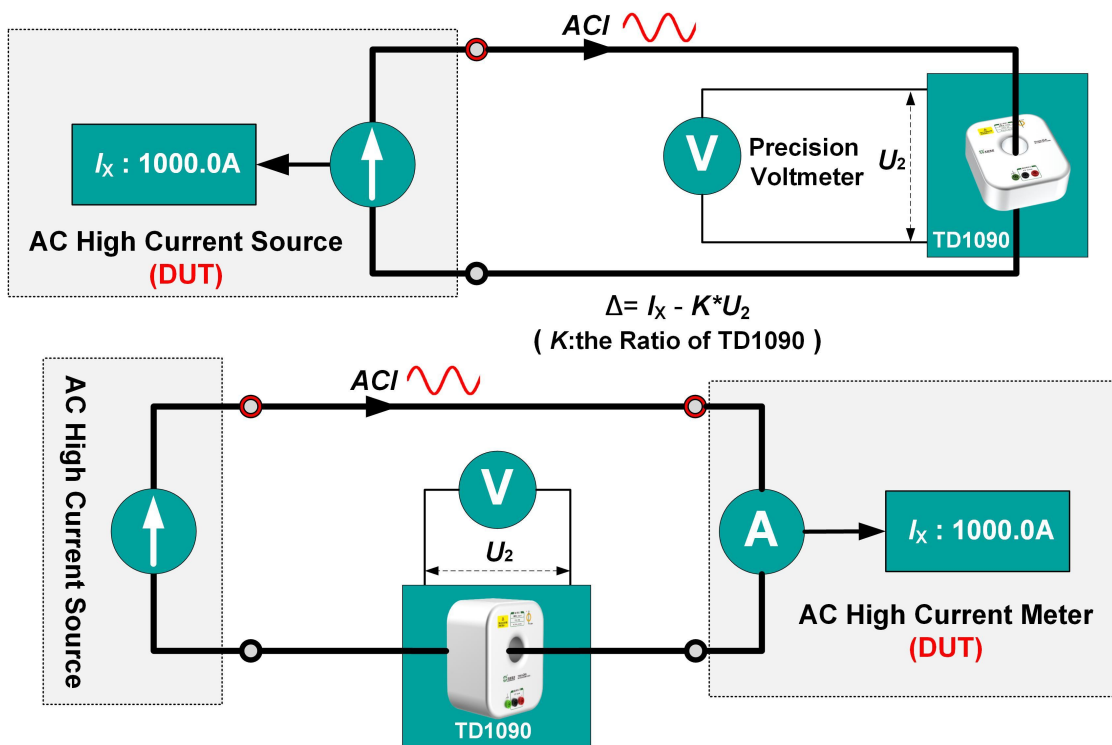
3. Applications

☆ Set up precision current test system



- It can be used with AC test power supply or constant current source to form a precision current test system, providing accurate and stable AC current signals for test devices and loads.

☆ Calibrate AC high current source / meter




- It can be used with a high-precision AC voltmeter to calibrate AC high current sources/meters.

4. Specifications

Nominal input current A	Nominal output voltage In	Conversion scale K	frequency Hz	Measurement uncertainty (k=2) @ 50 Hz	
				Class 0.005	Class 0.01
1000	1	1000:1	40≤F≤400	50 ppm	100 ppm
2000	1	2000:1	40≤F≤400	50 ppm	100 ppm

- Measuring range: (10% ~ 110%)*FS

5. General Specifications

Working environment	Temperature: 5°C ~ 40°C Humidity: 20% R·H ~ 85%R·H, no condensation. Others: No electromagnetic field interference.
Storage environment	Temperature:-2 0°C ~ 70°C Humidity: <95% R·H, no condensation.
Altitude	<3000 m
Size	170 mm (W) × 200 mm (D) × 100 mm (H) × Ø50 mm (d)
	
Quality	Approx 4 kg

6. Ordering Information

