

INSTRUMENT TRANSFORMER TEST SET



AMBER iXR-2000^M

Features

- Complete Microprocessor Control
- Automatic Null adjustment
- CT/PT Test
- Manual & Automatic ranging
- RS-232 Printer interface
- Parameter entry through keyboard
- Class of Accuracy: IEC, IS, ANSI, IEC-S, IS-S
- Light weight & Portable

Specification

Current	: 5A & 1A Nominal
Normal operation	: 0.5A-10A & 0.1A-2A
Extended operation	: 0.05A-10A & 0.01A-2A
Voltage	: 120V Nominal
Normal operation	: 30V - 200V
Extended operation	: 1.2V - 240V
Consumption	: Current 0.5VA @ 5A
	: Current 0.1VA @ 1A
	: Voltage 0.1VA @ 120V
Frequency	: 48Hz to 62Hz
Measuring time	: Instant Reading
Power	: 90V to 270V, 50Hz, 40VA
Temperature	: Upto 45 ^o C
Humidity	: 0 to 95 RH
Dimensions	: 19"x 15"x 6" / 19"
	Rack mounting
Weight	: 12kgs (approx)

Note:

Can be supplied the following Models:

- Current Transformer Test Set(AMBER cXR-2000^M)
- Potential Transformer Test Set(AMBER pXR-2000^M)

Description

AMBER's Instrument Transformer Test Set is a complete micro-processor controlled comparator, compares two instrument transformers (CT/PT) of nominally same ratios. So, a small variation in the excitation voltages, currents and frequencies does not affect the measurement. The CT Test set can test both 1A & 5A test CTs with 1A or 5A standard CT. This Instrument have an in-built RS-232 Printer interface that enables the user to dump the Measured values to a PC or serial printer.

Display & Indicator

- 320 x240 dot Back-lit LCD display for error messages / data entry / measured value / Ratio Error & Phase Error.
- Balanced & Unbalanced condition
- Centiradian (CR) or Minute (Min)
- Measured value can be displayed in Volts, Amperes or % of rated value.
- Alarm indication for Error messages.

Printing

- Date
- Serial number
- Burden (VA)
- Input voltage/Current in Volt/Amp
- Ratio error in %
- Phase angle error in Minute/CR
- Class of Accuracy

Keyboard Controls

- 25 Keys Keypad consist of the following functions:
- 5A & 1A input
 - Voltage input
 - Auto range
 - Range 0.2%, 2% & 20%
 - Burden, Date, Serial No.
 - Dead Band
 - Centiradian / Minutes
 - Print (RS-232)

Accuracy : Ratio Error in % and Phase Error in CR/Min

	Range	Normal Operation	Extended Operation
20% ($\pm 19.99\%$ & $\pm 19.99\text{CR}$ or ± 680 minutes)		$\pm 1\% \text{ RDG} \pm 0.04$	$\pm 1\% \text{ RDG} \pm 0.10$
2% ($\pm 1.999\%$ & $\pm 1.999\text{CR}$ or ± 68.0 minutes)		$\pm 1\% \text{ RDG} \pm 0.004$	$\pm 1\% \text{ RDG} \pm 0.010$
0.2% ($\pm 1999\text{ppm}$ & $\pm 1999\mu\text{R}$ or ± 6.80 minutes)		$\pm 1\% \text{ RDG} \pm 10$	$\pm 1\% \text{ RDG} \pm 20$

Specifications may change without notice due to continuous development.