



ISO-9001

# C.T. Testing Unit

DATA SHEET NO. CTU /02/99



## DESCRIPTION

It compares & reads the error due to imbalance in signals of test C.T. with reference C.T. and applies necessary proportional signal to nullify the error. Input is displayed in percentage or actual value, and phase error in centiradians or minutes. On separate key commands the error readings with date, time, % input & burden are sent either to a PC through RS232C port or to a printer connected to parallel port, in order to have report in "view format". The data read from RS232C port can be arranged by using any standard text editor, and a printout can be taken.

## FEATURES

- ♦ Microprocessor controlled
- ♦ Self zero check and calibration check
- ♦ Digital display of %input, ratio error and phase error
- ♦ Manual and auto ranging modes
- ♦ Test 5A and 1A CT with either 1A or 5A reference CT
- ♦ RS 232C port and parallel port for printing
- ♦ Built in real time clock
- ♦ Parameter entry through keyboard

## ELECTRICAL SPECIFICATIONS

- ♦ TYPE : Single phase
- ♦ OPERATING CURRENT: 1A / 5A, 0.5VA
- ♦ AUXILIARY SUPPLY : 110V/240V.AC  $\pm 20\%$ , 50/60Hz, 60VA.
- ♦ ACCURACY :  $\pm 0.5\%$  of reading  $\pm 1\%$  of range
- ♦ FREQUENCY : 45Hz - 65Hz
- ♦ ERROR RANGES : 20% ( $\pm 19.99\%$  ratio error and ( $\pm 19.99\text{cR}^*$  or 80mins.phaseerror))  
2% ( $\pm 1.999\%$  and ( $\pm 1.999\text{cR}$  or 68.0 mins.))  
0.2% ( $\pm 1999\text{ppm}$  and ( $\pm 1999\mu\text{R}$  or 6.80 mins.))  
(**cR** = Centiradians,  **$\mu\text{R}$**  = Microredians, **ppm** = Parts Per Million)
- ♦ RESOLUTION : 0.05% of range
- ♦ MEASURING TIME : 6 - 7 seconds irrespective of signal level and error range.
- ♦ OUTPUTS : RS232C port & Parallel port (data in ASCII format).
- ♦ INSULATION RESISTANCE : Greater than 20M ohms at 500V. DC.
- ♦ DIELECTRIC STRENGTH : 2kV RMS for 1 minute
- ♦ OPERATING TEMP. : 0°C to 55°C
- ♦ STORAGE TEMP. : -20°C to 70°C
- ♦ HUMIDITY : Up to 95% RH.

## MECHANICAL SPECIFICATIONS

- ◆ MODEL : CTU
- ◆ SIZE : 180 x 320 x 450 mm
- ◆ WEIGHT : Approx. 8.0kg.

## KEYBOARD CONTROLS

- 0 - 9 - Numeric keys to enter values.
- - Decimal point.
- ENT - Enter key.
- RTC - Enter date and time.
- SR/VA - Enter serial no. and burden.
- PRINT - Take printout of error readings.
- SER - Send data to serial port.
- %/ACT - Display and indicate input in percentage or actual value.
- DEG/RAD - Display and indicate phase error in minutes or centiradians.
- ZERO - Check auto zero.
- CAL - Test self calibration

## DISPLAYS AND INDICATIONS

- ◆ 4 digit 7segment LED display each to display input, ratio error and phase error.
- ◆ LED indications for following quantities
  - 1) % Input
  - 2) Minutes and centiradians.
  - 3) Range for 20%, 2%, 0,2% and Auto
  - 4) Balance, over-range, zero and calibration.

## PRINTING

Date, time, serial no., input (% or actual value), burden, %ratio error, & phase error (minutes or centiradians).

## Ordering information

1) Type 2) Model 3) Operating current 4) Auxiliary supply