



ISO-9001

## P.T. Testing Unit

DATA SHEET. NO.PTU/03/99



### DESCRIPTION

It compares & reads the error due to imbalance in signals of test P.T. with reference P.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
- ◆ Programmable voltage input
- ◆ Manual and auto ranging modes
- ◆ RS 232C port and parallel port for printing
- ◆ Built in real time clock
- ◆ Parameter entry through keyboard

### ELECTRICAL SPECIFICATIONS

- ◆ TYPE : Single phase
- ◆ OPERATING VOLTAGE : 3 to 110V AC, 0.5VA
- ◆ AUXILIARY SUPPLY : 110V/240V. AC  $\pm 20\%$ , 50/60Hz, 60VA.
- ◆ ACCURACY :  $\pm 1\%$  of rdg  $\pm 0.5\%$  of range
- ◆ FREQUENCY : 45Hz - 65Hz
- ◆ ERROR RANGES : 20% ( $\pm 19.99\%$  ratio error and ( $\pm 19.99\text{cR}^*$  or 680 mins.phase error)  
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)

# P.T. Testing Unit



- ◆ RESOLUTION : 0.1Vac
- ◆ 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 : PTU
- ◆ SIZE : 180 x 320 x 450 mm
- ◆ WEIGHT : Approx. 8.0 kg.

## KEYBOARD CONTROLS

- 0 - 9 - Numeric keys to enter values.
- - Decimal point.
- ENT - Enter key. And also to enter voltage input.
- 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.

## DISPLAY AND INDICATIONS

- ◆ 4Digit 7segment LED display to indicate input voltage, 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 voltage 4) Auxiliary supply