

# DIGITAL TIMER

▶ **PTE-30-CH**



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# PTE-30-CH



## STANDARD ACCESSORIES

- 1 Instruction Manual.
- 4 connection cables, 2 meters length.
- 4 crocodile clips, for use with the connection cables.
- Complete set of fuses.
- 1 Nylon protection bag.



All inputs are fuse protected and clearly marked for easy access.

## TECHNICAL SPECIFICATIONS

Voltage supply:	230V ± 10% - 50-60 Hz // 115V ± 10% - 50-60 Hz
Display reading:	LED with 5 digits, 7 segments.
Measurement range (3 modes):	s Mode: 00.000 to 99999 s Cycle Mode: 0000.0 to 9999.9 cycles Frequency Mode: 20.000 to 4000.0 Hz
Function:	Start Stop Time between two events Pulse Time of a signal pulse Frequency Reads the frequency in the input taps
Accuracy:	±0.01% ±1 ms.
Timer start:	Direct Events: · By activation / deactivation of the start monitor. BUS-PTE Events: · By a positive or negative event in the BUS-PTE.
Timer stop:	Selectionable between activation or deactivation of the signal monitor. By a positive or negative event in the BUS-PTE.
Contact input:	Voltage-open circuit 10.2 V Current-short circuit 25 mA.
Voltage input:	5 - 250 Vdc or Vac Frequency 20 - 4000 Hz Input Impedance: 19 KΩ
Temperature Range:	Accuracy range 20 - 30° C Working range 0 - 50° C
Dimensions:	Height: 190 mm. - 8" / Width: 100 mm. - 4" / Depth: 40 mm. - 2"
Weight:	1 Kg. - 2.2 lb.

## Digital Timer

### DESCRIPTION

This chronometer has been designed as an accessory to our injection instruments to test protective relays. Its function is to determine one of the most important parameters, the reaction of the delay time of a protection relay in relation to a trip condition.

### APPLICATIONS

- Measures the trip time in protection relays.
- Measures the duration of a signal pulse.

### OPERATION

The various function modes are selected by pressing the MODE button to determine the various possibilities to start or stop the timer. This button also determines if the chronometer is in the Frequency or Timer mode.

**START** 2 LEDs indicate the type of signal in the input taps which start the chronometer.

- Start with the circuit closed or the presence of voltage.
- Start with the circuit open or the absence of voltage.

**STOP** 2 LEDs indicate type of signal in the input taps, which stops and holds the timer reading.

- Stops when the circuit closes or the presence of voltage.
- Stops when the circuit opens or the absence of voltage.

**PULSE** 2 LEDs indicate the type of input signal which produces the starting or stopping of the timer.

- Starts when the circuit closes or there is presence of voltage and stops when the circuit opens or when there is an absence of voltage.
- Starts when the circuit is open or with the absence of voltage. Stops when the circuits is closed or with the presence of voltage.

**FREQUENCY** When the LED Cl/Hz is selected the timer reads the input frequency applied in the comands V taps.

**CONTROL** There are 3 groups of press button switches:

**MODE** Each time this is pressed, the function mode changes there are 7 positions; 4 are to start or stop the timer; 2 are for the pulse mode and the other to measure frequency.

**DISPLAY** Each time this is pressed the display will show either seconds or cycles.

**RESET** When this pressed the timer will reset to 0, ready to perform the next test.

If this button is pressed for than 2 seconds " - - - " appears on the display, this deactivates the timer.

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