



OMEGA TYPE DT-018 Digital Timer-Two Channel has been designed specifically for the measurement of time intervals. Both the channels have four trigger modes to measure the Pulse Width, Pulse duration, Duration of three continuous pulses and time interval between pulse from different sensors, with an accuracy of 10 m sec. on each channel. This timer is a must for certain experiments in Physics and Electronics Labs. This instrument is based on discrete TTL, CMOS and general ICs and other components. The input terminals are protected against high level signals connected accidentally.

SPECIFICATIONS

01 INPUT CHARACTERISTICS

- 1.1 RANGE : All inputs DC to 1MHz.
- 1.2 SENSITIVITY : All inputs 20 mV.
- 1.3 IMPEDANCE : 100k ohm nominal.
- 1.4 TRIGGER LEVEL : To be set at 1.4V
- 1.5 INPUT PROBE : For photo sensitive triggering.

02 TIME INTERVALS

- 2.1 RANGE : 10 microseconds to 9999 seconds.

03 TIME BASE

- 3.1 FREQUENCY : 1MHz crystal controlled.
- 3.2 CLOCK SIGNALS : 100KHz, 10KHz, 1KHz, 100Hz, 10Hz, 1Hz.

04 INPUTS

- 4.1 CHANNEL I : Input A, Input B
- 4.2 CHANNEL II : Input C, Input D

05 TRIGGER MODES

CHANNEL - I

- \overline{A}
- $\overline{A} \overline{A}$
- $\overline{A} \overline{A} \overline{A}$
- $\overline{A} \overline{B}$
- \overline{C}
- $\overline{C} \overline{C}$
- $\overline{C} \overline{C} \overline{C}$
- $\overline{C} \overline{D}$

CHANNEL - II

- Input A or C in mode one is used to measure the pulse width.
- Input A or C in mode two is used to measure the pulse duration.
- Input A or C in mode three is used to measure the duration of three continuous pulses.
- Input A, B or C, D in mode four is used to measure the time interval between pulse from different sensors.

FEATURES

- 01 READ OUT FOR EACH CHANNEL : 4 digit seven segments 0.75 inch high LED display.
- 02 INPUT PROTECTION : Protected for inputs upto 600 volt peak to peak.
- 03 POWER REQUIREMENT : 230V \pm 10% at 50Hz, A.C. Mains
- 04 FACILITY FOR MANUAL CHECKING OF ALL INPUTS.
- 05 AUTOMATIC RESETTING.
- 06 ALL COMPONENTS ARE MOUNTED ON SINGLE GLASS EPOXY PCB.
- 07 STRONGLY SUPPORTED BY DETAILED OPERATING INSTRUCTIONS.
- 08 Weight : 8 Kg. (Approx)
- 09 Dimension : W 425 x H 190 x D 290

PHOTOSENSOR (FOR DIGITAL TIMER-TWO CHANNEL) OMEGA TYPE PS-009

- 10 A narrow beam of light from a low power 6 volt 150 mA lamp is made to fall on a phototransistor, placed at a distance of about 4cm. The bulb and the phototransistor are enclosed in two light tight cases and one hole in each decides the path of light beam.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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