

# Electronic Digital Timer

## 7 Decade

**TA700/TA701**

- 7 or 8 Digit Display
- 96 x 48 mm DIN standard Housing
- 115/230VAC or 12-28VDC supply
- 12VDC output for proximity sensors etc
- Time ranges from 1 mS to 9999999hours
- Non Volatile Memory-10 year data retention
- Can accumulate power on time
- Start/Stop or Run inputs
- NPN or PNP type inputs.
- Front Panel reset



### DESCRIPTION

These electronic accumulating timers provide precision measurement of time for both industrial and laboratory applications. They will accept electronic input signals from proximity switches and mechanical contacts (switches relays etc) to control their functions.

These digital timers have eight time ranges with automatic decimal point selection that cover times from 1 millisecond to 9,999,999 hours, and the non-volatile memory, if selected, will maintain the time value in the absence of power for over 10 years. This facility enables all models to be used as hours meters by accumulating the total time that power has been applied to the instrument. Alternatively the display will reset to zero at power on. The decimal point flashes when the timer is running.

A front panel reset is standard on the 7 digit model. Rear panel connections are available for Reset, Inhibit, Start & Stop (TA700) or Run (TA701) as well as the 12 VDC output for powering sensors and the AC or DC power inputs.

A small 4 way switch, accessible through the side of the instrument allows the user to set up the operation of the timer. This allows selection of the non-volatile memory and the eight time ranges

### Modes of Operation:

**TA700:** The time accumulates from zero and overflows at 9999999 to 0 under the control of the Start and Stop inputs. The inhibit input freezes the time while applied. Reset will stop the timer and return the display to zero.

**TA701:** The time accumulates from zero and overflows at 9999999 to 0 while the Run input is maintained, stopping when it is removed. The inhibit input freezes the time while applied. Reset will return the display to zero.

### Options

**Serial Data Output:** The displayed time value can be transmitted as an RS232 or RS485 type serial output to a remote device. (Such as an Abtek large display unit or a computer). The data is sent as standard ASCII characters in an 8 character burst at preset time intervals.

## SPECIFICATION

<b>Time Maximum:</b>	9 999 999 (TA700/TA701)
<b>Time direction:</b>	Up
<b>Display:</b>	7 Segment LED, 7.62 mm high
<b>Timebase:</b>	1 mS, 10 mS, 100 mS, 1 Sec, 0.1 min, 1 min, 0.1 hour, 1 hour
<b>Inputs:</b>	Start, Stop, Reset, Inhibit, (TA700) Run, Reset, Inhibit, (TA701)
<b>Input Requirements:</b>	DC voltage from 3 to 30 volts
<b>Panel Reset:</b>	Front panel reset button
<b>Supply:</b>	115/240 VAC or 12 - 30 VDC
<b>Power Output :</b>	12 volt DC output @ 50 mA for powering sensors etc.
<b>Power Consumption:</b>	3VA or 250 mA
<b>Environment:</b>	Temperature- -10 to +60 degree Celsius relative humidity- 10% to 90% non-condensing IP65 sealing kit available
<b>Housing:</b>	Plastic moulding
<b>Dimensions:</b>	96 x 48 x 155 mm (148 behind panel including terminals)
<b>Panel Cut-out:</b>	92 x 43 mm
<b>Connections:</b>	Removable plug in rising cage screw terminal block

**Order code:** {type} {option}

i.e. TA700, TA701-RS232