Electronic Digital Timer
4 & 6 Decade Predetermining

TP472
TP672

- 4 or 6 Digit LED Display
- 72 x 72 mm DIN standard Housing
- 115/230VAC or 12-28VDC supply
- 12VDC output for proximity sensors etc
- Time ranges from 1 mS to (99)9999 hours
- Time down from preset time
- Crystal controlled accuracy
- Start, Stop and Reset inputs
- PNP type inputs.
- Screw terminal connections
- Relay output

DESCRIPTION

These electronic predetermining timers provide precision control 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. The required time is set using the front panel "push-push" switches and at power on or reset the time is loaded into the display and the timer is started and stopped as required from the control inputs.

These digital timers have eight time ranges with automatic decimal point selection that cover times from 1 millisecond to (99)9,999 hours. The decimal point flashes to indicate when the timer is running.

A 5A changeover relay output is available for controlling external devices

A small 4 way switch, accessible through the rear of the instrument allows the user to set up the operation of the timer. This allows selection of the two operating modes and the eight time ranges.

Rear panel connections are available for Reset, Start & Stop as well as the 12VDC output for powering sensors and the AC or DC power inputs.

Modes of Operation

Interval Delay: The time runs down from the set value to zero under the control of the Start and Stop inputs. Reset will stop the timer and return the display to the preset value. The output relay energises as soon as the timer starts and de-energises at zero. During the time period if Stop is activated the relay is de-energised and the timer will stop. The timer may be reset or started from the stopped condition. Operating the reset while the timer is running will de-energise the relay and the timer will revert to the set value.

Delay On: The time runs down from the set value to zero under the control of the Start and Stop inputs. Reset will stop the timer and return the display to the preset value. The output relay remains de-energised when the timer is started. The relay energises when the time reaches zero and remains on until reset. During the time period if Stop is activated the relay remains de-energised and the timer will stop. The timer may be reset or started from the stopped condition. Operating the reset while the timer is running will cause the timer to revert to the set value.

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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

Time Maximum:	9999 (TP472) 999 999 (TP672)
Time direction:	Down
Display:	7 Segment LED 7.62 mm high (TP672) 14 mm high (TP472)
Timebase:	1 mS, 10 mS, 100 mS, 1 Sec, 0.1 min, 1 min, 0.1 hour, 1 hour
Inputs:	Reset, Start, Stop
Input Requirements:	DC voltage from 3 to 30 volts (momentary or maintained)
Supply:	115/240 VAC or 12 - 30 VDC
Power Output :	12 volt DC output @ 50mA for powering sensors etc.
Relay:	changeover contacts, 5 amp (resistive) at 250 VAC/30VDC
Power Consumption:	3VA or 250 mA
Environment:	Temperature- -10 to +60 degree Celsius relative humidity- 10% to 90% non-condensing IP65 sealing kit available
Housing:	Plastic moulding
Dimensions:	72 x 72 x 135 mm (125 behind panel including terminals)
Panel Cut-out:	67 x 67 mm
Connections:	Removable plug in rising cage screw terminal block
Order code:	{type}-{option}

i.e. TP672,   TP472-RS232

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