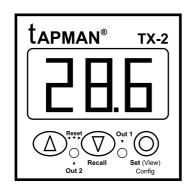
PROGRAMMABLE TIMER



Specifications

Display: 0.56" height 3 digit Red. Time ranges: 9.99 / 99.9 / 999 sec,

9:59 min:sec, 99.9 / 999 min, 9.99 /

99.9 / 999 Hrs.

Countina

Direction: Up / Down.

Modes: a) ON delay b) Interval c) Cyclic On

first d) Cyclic OFF first.

Time setting: By front keypad.

Outputs: 2 C/O.

Relay rating: 7A @ 240VAC.
Inputs: a) START b) RESET

Reset: a) Front panel. b) Rear terminal. c) On

power interruption.

Reset Time: Less than 100ms.

Accuracy: ±0.05% or 50msec which ever is

greater.

Supply: 220VAC ±10% @ 50 / 60 Hz.

Mounting: Panel mounting.

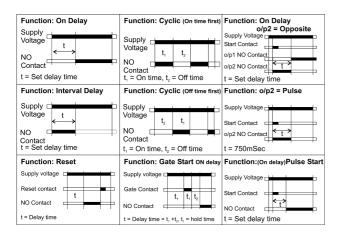
Housing: ABS.

Operating

Temperature: 0°C to 50°C.

Humidity: 95% R.H. Non condensing.

OPERATING MODES

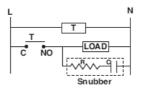


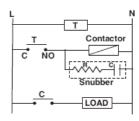
Precautions during use

High voltage spikes (noise) present in the industrial environment can cause malfunctioning of the instrument like erratic display, latch up, data loss or permanent damage to the instrument.

To reduce the chances of malfunction

- Use of MOV across supply of timers and snubber circuits across loads are recommended.
- b) Use separate shielded wires for inputs.





SET VALUE PROGRAMMING

1. On-delay / Interval mode

- a. Keep the O button pressed for 3 seconds.
- b. The display shows the Set value and starts to flash (on and off).
- c. Using (a) and (b) buttons change to desired value.
- d. While the display is still flashing press O button.

2. Cyclic On-first/ Cyclic Off first mode.

- a. Keep the O button pressed for 3 seconds.
- b. The display shows and starts flashing.
- c. Keeping the \bigcirc button pressed use \bigcirc and \bigcirc buttons to select \bigcirc (On time) or \bigcirc (Off time).
- d.Leave the O button.
- e. Now the display shows the corresponding set value.
- f. Using (a) and (b) buttons change to desired value.
- g. While the display is still flashing press O button.

RESETTING THE TIMER

1. By front panel:

Press the and buttons together for 3 seconds.

2. Remote reset:

TX2 can be reset from a remote push button by shorting the RST and COM terminals.

SETVALUE RECALL

While TX2 is running/ waiting for inputs, set value/ values can be recalled (viewed) without disturbing the timing process.

Briefly press the O button on the TX2 timer.

- 1. If the configured mode is an or aff the display will show the set value for one second.
- 2. If the configured mode is Lya or LyF the display will show and its set value followed by FE and its set value.

CONFIGURATION RECALL

While TX2 is running/ waiting for inputs pressing the button for 3 seconds causes to display to show the configuration setting of parameters 1 to 6 one after the other.

CONFIGURATION

TX2 is a multifunctional timer. To make it function in the desired way it has to be *configured*. Configuration can be done through the front panel buttons.

To enter into the configuration mode.

- 1. Remove power to the instrument.
- 2. Keep the O button pressed
- 3. Apply power.
- 4. Leave the button when the display shows Inf.
- Navigate the configuration parameters using \(\triangle \) and \(\triangle \) buttons.

To change parameter value

- 6. Press the O button to enter that parameter.
- 7. The display shows the value of that parameter.
- 8. Using (a) and (b) buttons change to the desired value.
- 9. Using O button exit that parameter.
- 10. Similarly other parameters can be changed.

To save the changes and exit the configuration mode

- 11. Navigate using **(a)** and **(b)** buttons (to the parameter) when the display shows **(E51)**.
- 12. Press the O button.
- 13. The TIMER is now updated with the new configuration and is ready to be used.

Configuration Parameters

Configuration Parameters			
#	Name.	Setting range for parameter	
	FEE	SEC	Seconds
1	Time Units	_ ii	Minutes
		hг	Hours
2	Гп[] Range	999	9.99 When Time units is set to seconds
		959	9.59 When Time units is set to Minutes or Hours.
		999	99.9
		999	999
3	Діг Directio n	uР	UP : Once the timer starts the display increases from 0 to Set value.
		d□n	DOWN : Once the timer starts the display decreases from <i>Set value</i> to 0.
4	ппd Mode	ПП	On delay
		_FF	Interval
		СЧа	Cyclic with ON time first.
		CYF	Cyclic with OFF time first.
	FPr Front	4E5	Reset by front panel Enable .
5		по	Reset by front panel
	Reset	FaL	Disable. Output 2 follows Output 1.
6	□P⊒ Output 2	PL5	Output 2 pulses on for 750ms when <i>START</i> input is given.
		σΡΡ	Output 2 is opposite off Output 1.
7	г5L Reset	пог	Normal: To start a new cycle a RESET input has to be given.
		AuŁ	Auto : A new cycle can be started without first giving a <i>RESET</i> signal.
8	5Lr Start type	LE	Level: The START input can be closed permanently and the timer will always read it as start input present.
		GAF	Gate: When START is open the relay state does not change but the time counting stops. On make of START contact time counting starts from the last time count.
		ЕЧС	Edge : Timing starts on application of <i>START</i> input (Open to Close).
	ESC Exit Config	On pressing O button at this parameter configuration is saved and timer goes into normal operation.	