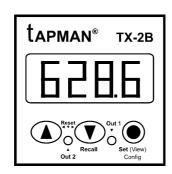
# PROGRAMMABLE BACK-UP TIMER



#### **Specifications**

Display: 4 digit LED display. Time ranges: 99.99 / 999.9 / 9999 sec,

99:59 Min:sec, 999.9 / 9999 min, 99:59 Hr:Min 999.9 / 9999 Hrs.

Counting

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.

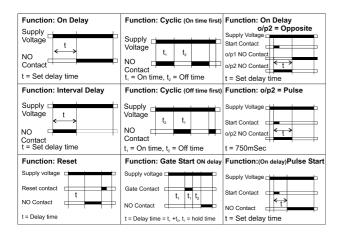
Housing: ABS.

Operating

Temperature: 0°C to 50°C.

Humidity: 95% R.H. Non condensing.

#### **OPERATING MODES**

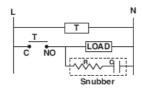


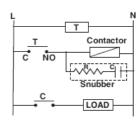
# Precautions during use

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 ( and ( buttons change to desired value.
- d. While the display is still flashing press 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 © button pressed use ② and ⑦ buttons to select ☐nE (On time) or ☐FE (Off time).
- d.Leave the O button.
- e. Now the display shows the corresponding set
- 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.

# 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		
	FuE	SEC	Seconds	
1	Time Units	п іп	Minutes	
		Ьг	Hours	
2	ГПЦ Range		9.99 When <b>Time units</b> is set	
		999	to seconds	
		псп	9.59 When <b>Time units</b> is set	
		959	to Minutes or Hours.	
		999	99.9	
		999	999	
3	dı r Directio n	[	UP: Once the timer starts	
		υΡ	the display increases from 0	
			to Set value.	
			<b>DOWN</b> : Once the timer	
		占	starts the display decreases	
			from Set value to 0.  On delay	
4	ппd Mode		Interval	
		off.		
		СЯП	Cyclic with ON time first.	
		СЯŁ	Cyclic with OFF time first.	
5	FPr Front Reset	4E5	Reset by front panel <b>Enable</b> .	
		пп	Reset by front panel	
			Disable.	
6	□P⊒ Output 2	F <sub>D</sub> L	Output 2 <b>follows</b> Output 1.	
			Output 2 pulses on for	
		PL5	750ms when <i>START</i> input is given.	
			Output 2 is <b>opposite</b> off	
		□₽₽	Output 1.	
7	r5Ł Reset		Normal: To start a new	
		пог	cycle a <i>RESET</i> input has to	
			be given.	
		Aut	<b>Auto</b> : A new cycle can be started without first giving a	
		ППС	RESET signal.	
	Start type		Level: The START input can	
		LE	be closed permanently and	
			the timer will always read it	
			as start input present.  Gate: When START is open	
		GAL	the relay state does not	
			change but the <b>time</b>	
8			counting stops. On make	
			of START contact time	
			counting starts from the last	
			time count. <b>Edge</b> : Timing starts on	
		EAG	application of START input	
			(Open to Close).	
	Раг	4E5	Reset on power fail.	
9	Power		- 2-1 P	
	on	ПП	Battery backup <b>ENABLE</b>	
-	RESET	0	poing (A) button at this	
	ESE On pressing O button at this Exit parameter configuration is saved ar			
	Config	timer goes into normal operation.		