



Tempo2 - Universal Two Stage Timer

Overview:

Model Tempo2 Universal Two Stage Timer is suitable for many applications that require a timed operation. e.g. delayed egress with a programmable 1-60 second door release after delay expires, door prop alarm, door annunciator, alarm swinger eliminator etc. Digital display facilitates ease of programming and indicates time remaining before relay activation. Daily / Weekly test mode can be used to trigger digital communicators or radio transmitters and provide Central Stations with an alarm test signal.

Specifications:

- Input 12 or 24 Volts AC or DC operation.
- Trigger input DC triggers via dry contact closure, or removal of contact closure.
- Output dry Form "C" contacts are 2 amp @ 120VAC/28VDC.
- LCD display for ease programming, and countdown feature.
- Current draw: stand-by 15mA, relay energized 30mA.
- Dual function: test timer/one shot.
- Accurate repeatable digital.
- EE Prom memory protects against loss of programming due to power failure.
- Board dimensions (approximate): 2.5"W x 3"L x 0.75"D

One-Shot Features (trigger activated):

- Programmable relay activation at the start or end of the timing cycle.
 - a. Delayed Pulse Mode:
 - 1 to 60 sec. programmable pulse at the end of timing cycle.
 - b. Delay Mode:
 - Relay can be programmed to energize or de-energize during timing cycle (Digitally adjust from 1 sec.-24hours).

Test Timer Option:

- Programmable weekly or daily test. (Test can be programmed for a specific day and time).

1. Depress and Hold **Confirm** for 2 seconds until

SU 00:00 TestMode

 will appear in display.
2. Depress **Advance**

SU 00:00 SetClock

 will appear in display.
3. Depress and Hold **Confirm** for two (2) seconds

SU 00:00 Set day

 will appear in display.

Enter the current day of the week by depressing **Advance** to make the selection.

4. Depress **Confirm**

SU 00:00 Set hour

 will appear in display.

Enter the current hour of day by depressing **Advance** to make the selection.

5. Depress **Confirm**

SU 00:00 Set min

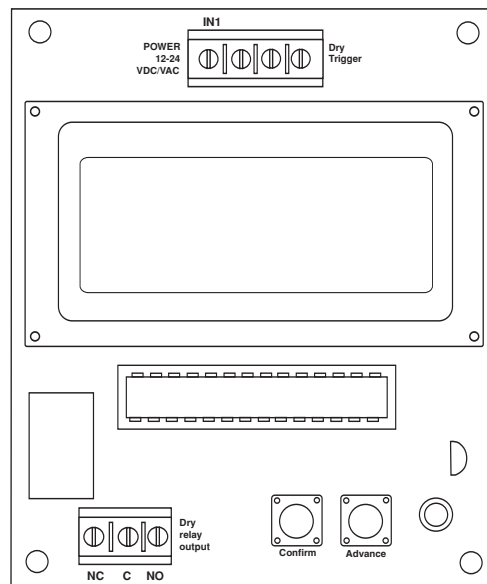
 will appear in display.

Enter the current minute of day by depressing **Advance** to make the selection.

6. Depress **Confirm**

SU 00:00 TestMode

 will appear in display.



7. Depress **Advance** twice SU 00:00
TestTime will appear in display.

8. Depress and Hold **Confirm** for two (2) seconds SU 00:00
Test day will appear in display.

Enter the desired day of the week by depressing **Advance** to make the selection (MO-SU or ** for every day test).

9. Depress **Confirm** SU 00:00
TestHour will appear in display.

Enter the desired hour of day by depressing **Advance** to make the selection.

10. Depress **Confirm** SU 00:00
Test min will appear in display.

Enter the desired min of day by depressing **Advance** to make the selection.

11. Depress **Confirm** pulse= 1
Duration will appear in display.

Depress **Advance** to select duration of relay operation (1-60 seconds), then depress **Confirm** to accept.

Trigger Mode Programming:

1. Depress **Advance** 00:00:00
Change ? will appear in display.

2. Depress and Hold **Confirm** for 2 seconds until 00:00:00
SetDelay will appear in display.

Enter the desired amount of hours by depressing **Advance** to make the selection.

3. Depress **Confirm** 00:00:00
SetDelay will appear in display.

Enter the desired amount of minutes by depressing **Advance** to make the selection.

4. Depress **Confirm** 00:00:00
SetDelay will appear in display.

Enter the desired amount of seconds by depressing **Advance** to make the selection.

5. Depress **Confirm** pulse = 1
Set PLS will appear in display.

Depress **Advance** to select pulse duration (1-60 seconds). If pulse is not needed skip to step 6.

6. Depress **Confirm** TRIG_OFF
TRG_EDGE will appear in display.

Enter the desired trigger option (OFF, ON, CNG) by depressing **Advance** to make the selection. Removal of trigger will start time cycle.

OFF option starts timing cycle when trigger is removed.

ON option starts timing cycle when trigger is applied.

CNG option starts timing cycle when trigger is removed or applied.

7. Depress **Confirm** RLY = ON
Event will appear in display.

Enter the desired relay option (OFF, ON, PLS) by depressing **Advance** to make the selection.

OFF option - relay turns off at the end of timing cycle.

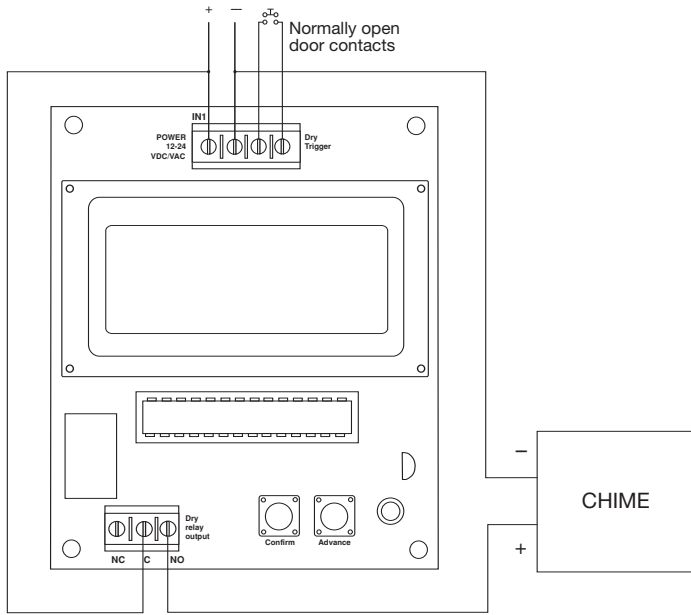
ON option - relay energizes at the end of timing cycle.

Pulse option - relay energizes momentarily (1 to 60 sec).

Depress **Confirm** to accept.

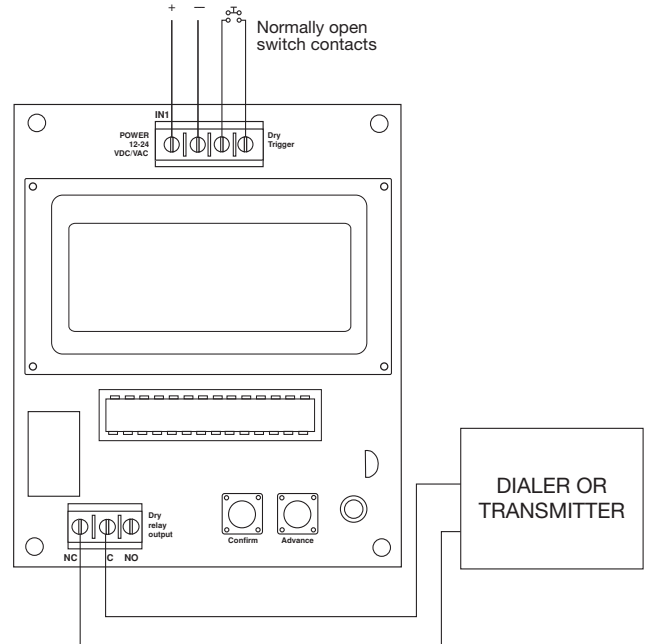
Tempo2 Typical Applications:

Fig. 1 - Timed Door Annunciator:



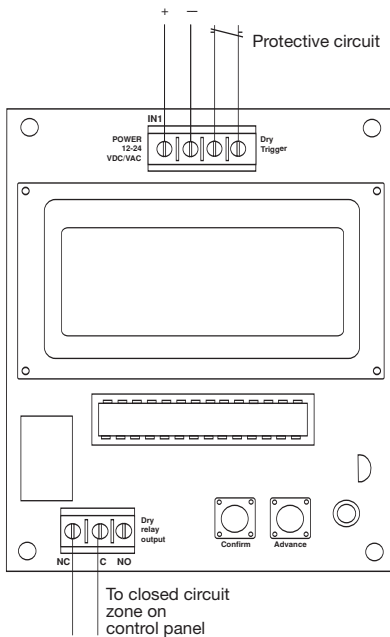
For this application select Trigger “CHG” and Relay “PULSE”.

Fig. 2 - Guard Tour Supervisory Timer:



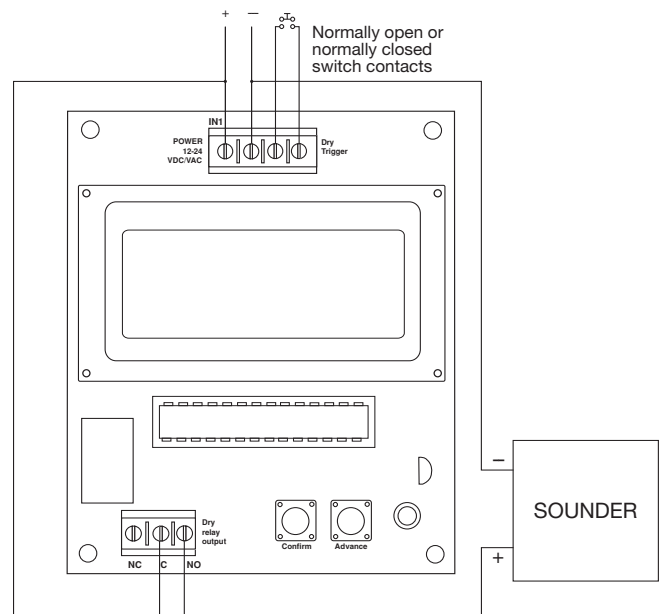
For this application select Trigger “CHG” and Relay “OFF”.

Fig. 3 - Swinger Eliminator:



For this application select Trigger “OFF”, Relay “ON”.

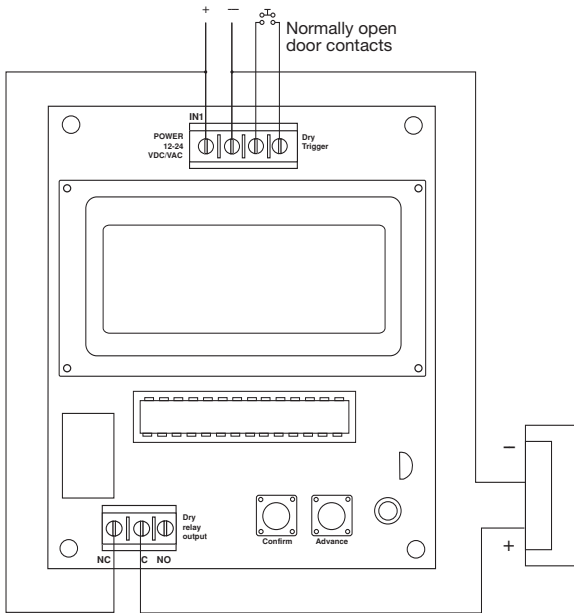
Fig. 4 - Delay Timer: Use for Door Ajar Alarm, Delayed Activation of Digital Dialer, Defrost Cycle Timer, etc...



For Normally Closed Trigger Contact select Trigger “OFF”, Relay “ON”.
For Normally Open Trigger Contact select Trigger “ON”, Relay “ON”.

Tempo2 Typical Applications (cont.)

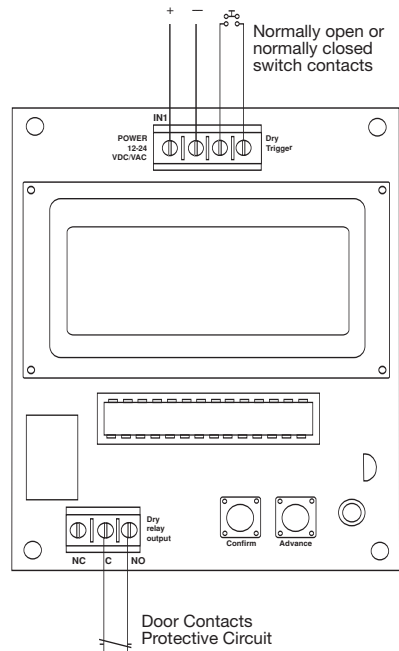
Fig. 5 - Timed Door Lock:



For this application select Trigger “CHG”, Relay “OFF”.

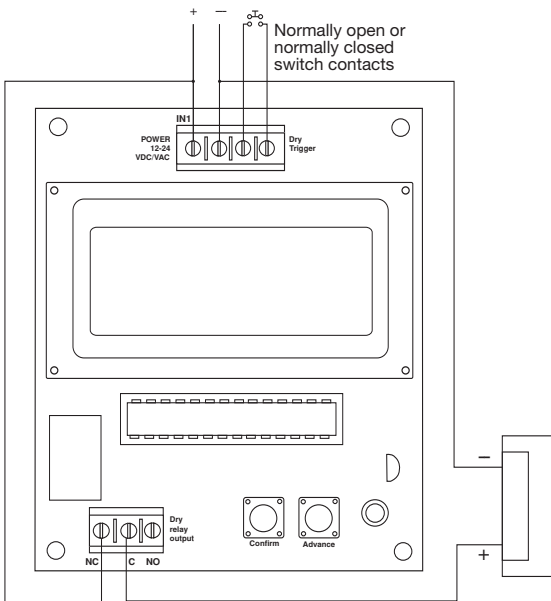
Fig. 6 - Timed Shunt for a Door:

Use to bypass alarm contacts.



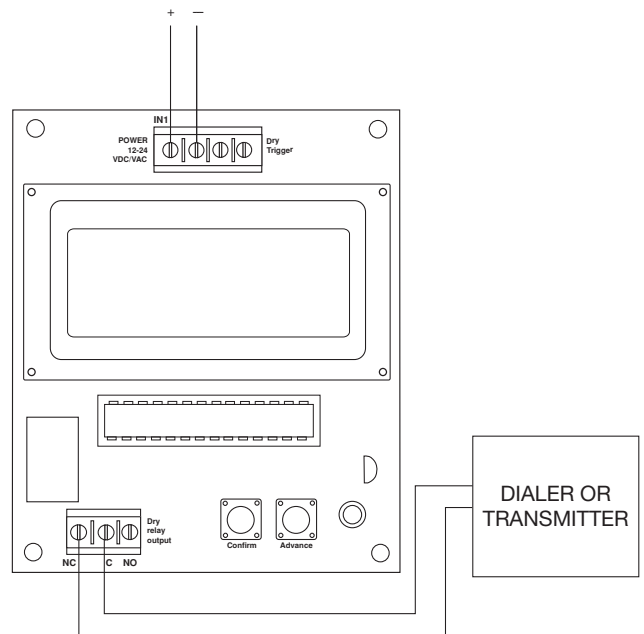
For this application select Trigger “CHG”, Relay “OFF”.

Fig. 7 - Delayed Egress:



For this application select Trigger “CHG”, Relay “PULSE”.

Fig. 8 - Test Timer:



Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.