



Tempo724Q

Two Channel Networked Annual Event Timer

Installation Guide

Overview:

Altronix Tempo724Q Network Timer is designed to support a wide range of applications such as Home and Building Automation, Security, Access Control, Lighting Control, and more. Tempo724Q is equipped with two independently controlled form "C" relay contacts that provides many latching and/or momentary operations during a program schedule of your choice. LINQ™ Network management technology allows for remote control, programming, and reporting of diagnostics via Email/Dashboard. Events may be set for single or multiple operations on a daily and/or weekly schedule.

Features:

Agency Listings:

- CE European Conformity.

Input Power:

- 12VDC/24VDC operation or PoE (12.95W, Class 3).

Relays:

- **Contact Rating** Form "C" 5A 24VDC/120VAC.
- **Standby Current** 10mA (relay off) or 50mA (relay on).

Features:

- Flash memory protects against loss of programming due to power failure.
- Accurate crystal controlled clock.
- Momentary and/or Latching Events.
- 60 individually programmed daily/weekly events.
- Block programming capacity can accommodate a total of 420 events per week.
- 30 programmable Holiday dates.
- Automatic compensation for leap year.

LINQ Technology:

- Remote programming.
- Programmable users.
- USB Network programming.
- Email and Windows Dashboard Alert notifications report real-time diagnostics.
- Event log tracks history.

Alerts:

- System Start up
"First man in" option
 - FM1 Active / Inactive
 - FM2 Active / Inactive.
- Standard or Daylight Savings Time settings
 - Enabled / Disabled.
- Relays
 - Relay Channel 1: On/Off
 - Relay Channel 2: On/Off.
- Trigger Inputs (Programmed, relay does not change state)
 - Trigger 1 Active / Inactive
 - Trigger 2 Active / Inactive.

LED Indicators:

- PoE input.
- AUX power input.
- Battery LED.
- Heartbeat (flashing).

Environmental:

- Temperature:
Operating: – 20°C to 49°C (– 4°F to 120°F).
Storage: – 25°C to 70°C (– 13°F to 158°F).
- Relative humidity: 20 to 85%, non-condensing.

Mechanical:

- Dimensions (W x H x D approx.):
5.5" x 3.5" x 1" (127mm x 98.9mm x 25.4mm).

Installation Instructions:

1. Mount Tempo724Q in the desired location/enclosure (mounting hardware included).
2. Tempo724Q can be powered by a UL Listed 12 or 24VDC power source, e.g. Altronix eFlow power supply/charger, or PoE (12.95W, Class 3). Connect a power source to the [AUX input +/-] terminals carefully observing polarity or connect a PoE source to the PoE input.
3. Connect a Data source to the [Data Input] RJ45 jack
4. Connect 12VDC battery (optional) to terminals marked [- 12V BATTERY].

Basic Operation:

Tempo724Q controls two (2) independently operated Dry Form "C" relay outputs. Relays can be programmed to:

- Turn on (latch)
- Turn off (release latch) or
- Pulse (momentary toggle)

at a specified time and day (this is referred to as an "event"). Events are programmed via the Altronix dashboard. Events may be programmed to occur on any day of the week at any time. In addition, events may be repeated at a specific time on two (2) or more consecutive days (i.e. M-F, Sun-Th, etc). Multiple combinations of individual and block events may be programmed. Holiday exceptions are individually selected by date and will override all regularly scheduled events.

Output Relay Modes:

- Relay OFF De-energizes the relay until a relay ON event is detected.
- Relay ON Energizes the relay until a relay OFF event is detected.
- Pulse Momentarily energizes the relay for a selectable time period of 1 sec. to 15 secs

Timer Alerts:

- System Start up
- "First man in" option: FM1 Active / Inactive, FM2 Active / Inactive
- Standard or Daylight Savings Time Settings: Enabled / Disabled

Relays:

- Relay Channel 1: On/Off
- Relay Channel 2: On/Off

Trigger Inputs (Programmed, relay does not change state)*

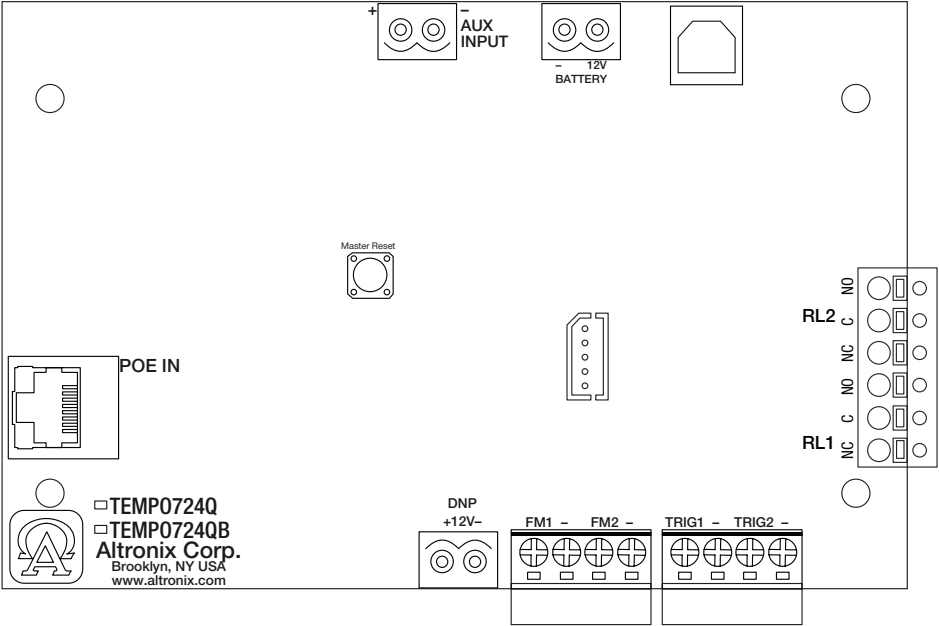
- Trigger 1 Active / Inactive
- Trigger 2 Active / Inactive

* Reserved for future use.

Technical Specifications:

Parameter	Description
Connections	RJ45 for PoE. 2-wire screw terminals for 12VDC/24VDC input.
Input Power Requirements	Midspan or switch port connected or 12/24VDC power supply.
Indicators	Yellow (RJ45 connector): On - Link, Off - No Link, Blinking - Activity. Green (RJ45 connector): On - 100Base-TX, Off - 10Base-T.
Environmental Conditions	Operating Ambient Temperature: - 40°C to 75°C (- 40°F to 167°F). Storage Temperature: - 40°C to 75°C (- 40°F to 167°F). Relative Humidity: 20 to 85%, non-condensing. Operating Altitude: - 304.8 to 2,000m.
Regulatory Compliance	CE European Conformity.
Weights (approx.)	Product: 0.4 lb. (0.18 kg) Shipping: 0.75 lb. (0.34 kg)

Fig. 1 - Tempo724Q



Configuring Tempo724Q for Network Connection

Please be sure to visit altronix.com for latest firmware and installation instructions

Accessing Device Interface

LinQ-enabled devices are managed through the LinQ Dashboard, a server application currently available for Windows 10 and 11.

The latest installer for the LinQ Dashboard can be found on <https://www.altronix.com>.

Once installed, the user can access the Dashboard through the application interface or configure and run it as a server on the local network.

On the Dashboard, all devices are available under **Devices** tab.

Connecting to the Dashboard

Devices can connect to the Dashboard over Network or USB. If at any time you are having issues connecting over the network, we recommend connecting directly over USB and inspecting the network configuration of the device.

Device Discovery:

The latest generation of LinQ products, by default, use MDNS (Multicast Domain Name System) to auto discover and connect to a Dashboard running on the same network. As products default to DHCP mode, allow a couple of minutes for the product to be assigned an IP address on the network, and to find and link to the Dashboard.

Once the connection is established, you will see your device pop up under the **Devices** tab.

Keep in mind:

- It is possible your network manager has blocked Multicasting on your local routers, this may prevent MDNS from working
 - DHCP will only work if a DHCP server is running on your network (typically part of any router).
- Devices will not connect with a direct wired RJ45 connection from the device to the computer hosting the Dashboard (You can connect using USB).

Manual:

If DHCP or MDNS auto detect is not feasible on your network, the device network settings can be configured manually by connecting over USB.

1. Using a printer cable, connect the device to the computer hosting the Dashboard.
2. The device will appear in the **Devices** tab of the Dashboard.
3. Enter the device and navigate to the **Settings/Network** tab section TCP/IP.
4. Set the method to STATIC.
5. Fill in the desired IP address, subnet and gateway and click **Submit**.
6. Navigate to the **Cloud** section of **Settings/Network**.
7. Fill in the IP address and port of the Dashboard, disable TCPS and toggle **Enable** to switch on
 - a. The IP address and Port of the Dashboard can be found under the **Network** tab of the dashboard, use port TCP2.
 - b. For remote connections you will have to find the Dashboard public IP address (Google *My Public IP Address*) from the computer hosting the Dashboard) and port forward port TCP2 on your router.
8. Reboot the device.
9. While the USB is still connected, connect the device to your local network, once it discovers the Dashboard, it will show connected on the cloud page referenced above.

Keep in mind:

- Make sure the static IP you assign is on the same network as the Dashboard.
- Always confirm that an IP address is available before assigning it as multiple devices with a shared IP address will cause unexpected issues on your network.
- Always work with your Network Administrator when installing new services/devices on a network.

Reaching Out to Altronix Tech Support

For an expeditious resolution to your inquiry, when calling tech support please have the following information ready.

1. Product name and version (a screenshot of the product's **About** page is ideal)
2. An outline (in as much detail as possible) of your setup and the events leading up to the issue
3. A detailed description of the issue(s) reported.

Altronix is not responsible for any typographical errors.

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