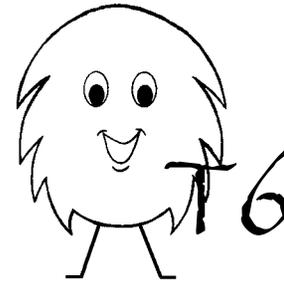


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## Expanded Output Section



**Installation booklet for part numbers:**

**0/8-20-1224**

**0/8-30-1224**

**0/8-40-1224**

**0/8-50-1224**

**0/8-60-1224**

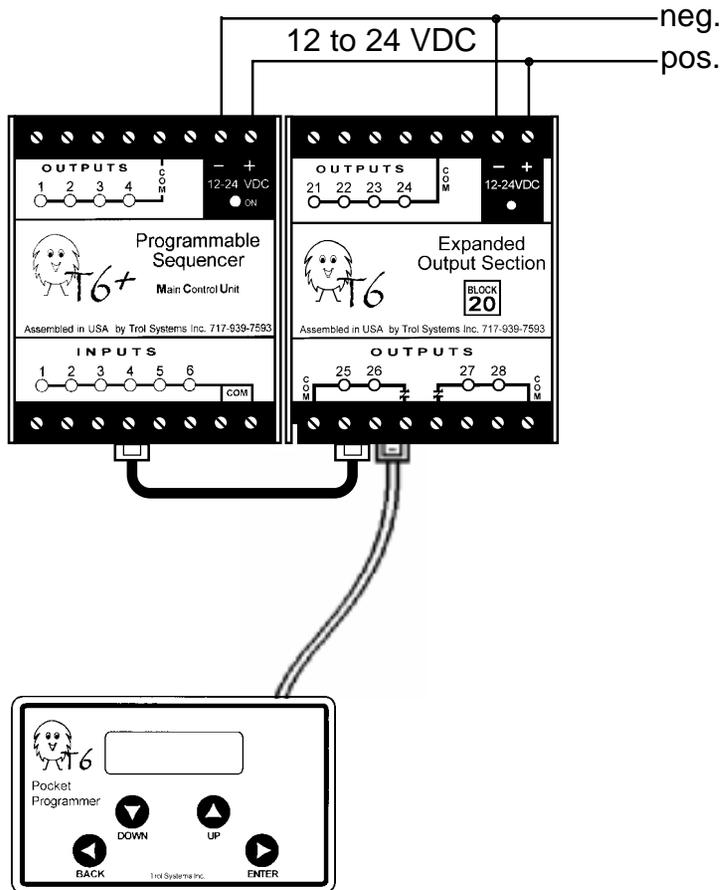
**0/8-70-1224**



## Installation

Expansion sections can be either DIN rail mounted or panel mounted using two #6 screws. They should be mounted beside the T6 MCU as shown below. If more than one expansion section is being added; install them in block number order from left to right.

Connect the supplied cable to the data port of MCU and to the left data port of the I/O unit. Be sure that all cable plugs are fully inserted and have locked into position. The programmer can be connected to any open data port.



## Specifications

Part No: 0/8-20-1224, 0/8-30-1224, 0/8-40-1224, 0/8-50-1224, 0/8-60-1224, 0/8-70-1224

### Power Requirements

115VAC @ .02A, 50/60Hz w/1000v magnetic isolation

### Outputs

8 relay contacts unprotected, with no leakage current  
5Amps @ 230VAC (resistive load)

### Output configuration

Outputs x1 to x4: all n.o. and share one common  
Output x5 is n.o. x6 is n.o. & n.c., both share one common  
Output x7 is n.o. & n.c. x8 is n.o., both share one common

### Physical

Size 2.9" (75mm) x 2.2" (55mm) x 4.3" (110 mm)  
Mounting DIN rail or panel (with two #6 screws)  
Weight 11 oz. (312 grams)  
Temp 20 - 140° F, 90% r. humidity (non cond.)

### Origin

Designed and assembled in the USA.

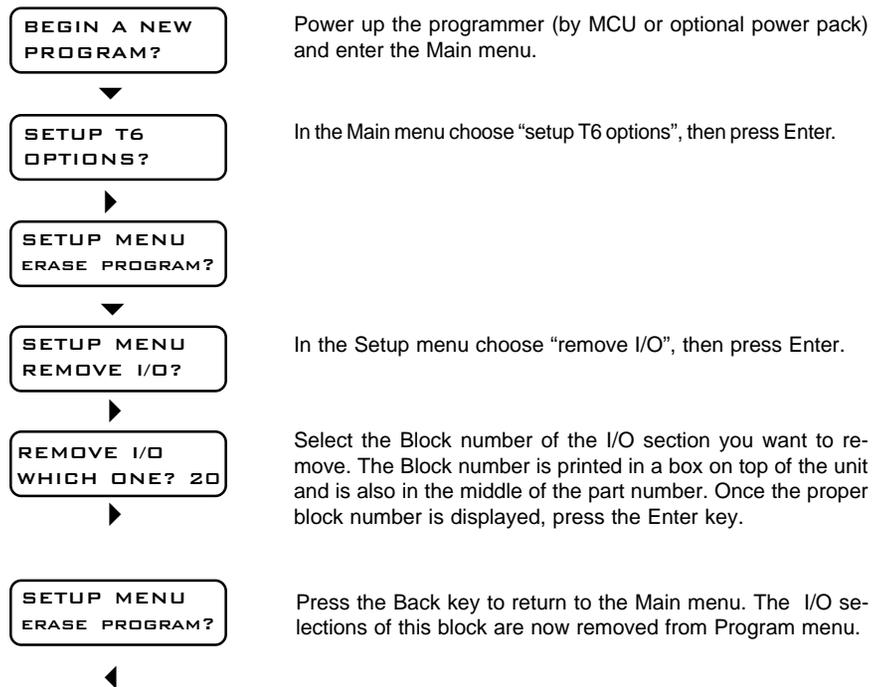
### Performance

Timing Output timing  $\pm$  1ms repeatability  
Communication output data is sent to/from the MCU within 850us (typ) / line  
Data Port Dual IIC bus @ 100khz, ports are in parallel

## Removal of I/O Programming Procedure

This procedure is used only when: The pocket programmer needs to be used on a differently configured system or the system is being dismantled.

Note: Adding and removing I/O using the Setup menu procedure does not change the program within the T6 MCU. The program of a MCU must not contain any line that depends on expanded I/O if it is not connected to the system.

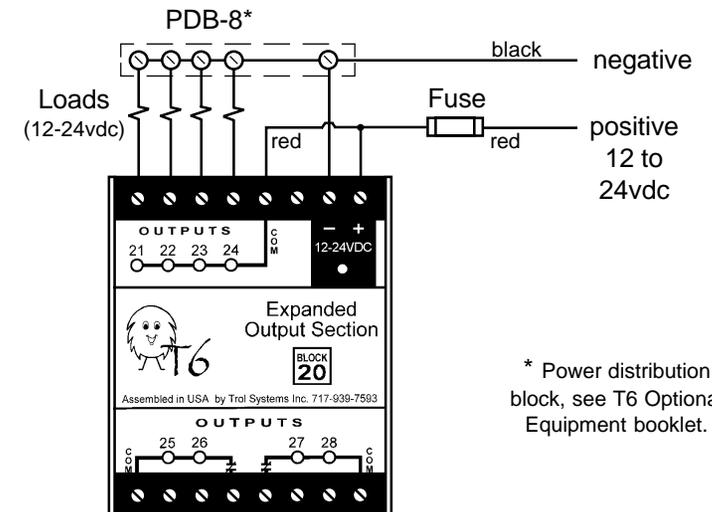


## Wiring the supply

I/O sections with part numbers ending in "1224" require a 12 to 24 VDC supply. It is good practice to fuse the supply. Connect the supply to the first two terminals marked "12-24vdc" as shown below. The third, unmarked terminal is not used.

## Wiring the outputs: x1 to x4

Each of these outputs consists of a normally open relay contact that can switch up to 5 amps at 230VAC or 30VDC. These contacts share a common terminal marked "COM". If the loads are the same voltage as the supply, install a jumper as shown below. If the loads are of a different voltage than the supply, connect the common terminal of the outputs to a power supply suitable for the load devices.



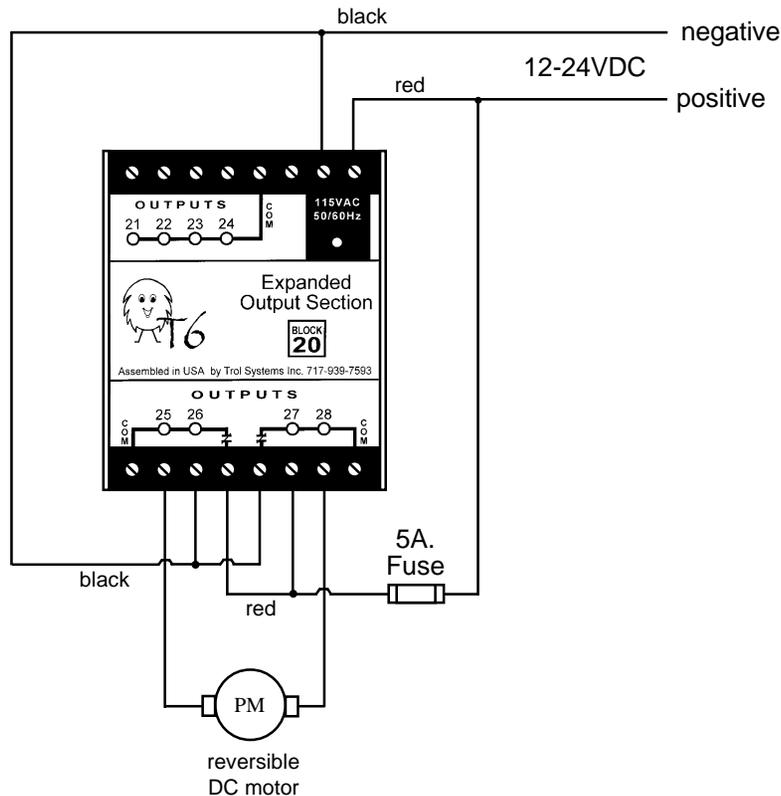
\* Power distribution block, see T6 Optional Equipment booklet.

## Wiring the outputs: x5 to x8

Each output contact can switch up to 5 amps at 230VAC or 30VDC. There are two banks of contacts, each bank shares a common terminal marked "COM". Outputs x5 and x8 are normally open. Outputs x6 and x7 have a normally open and normally closed contacts (Form C).

These outputs can configuring like x1 to x4, by connecting both commons to the positive line and configuring the loads as shown on page 2.

A unique DC motor configuration is illustrated below. It allows a DC permanent magnet motor to be reversed. To go forward: outputs x5 and x8 are turned on. To reverse: outputs x5, x6, x7 and x8 are turned on. To stop: outputs x5 and x8 are turned off. Note: To reduce surge currents, program the T6 to wait for the motor to fully stop before changing its direction.



## Installation Programming Procedure

Once the output block is installed, the pocket programmer must be informed that it exists. This is done using the Setup menu as described below. Note: If you added more than one I/O block choose the block with the lowest number, then repeat the setup procedure for the next block.

