

Expanded Output Section



Installation booklet for part numbers:

0/8-20-115

0/8-30-115

0/8-40-115

0/8-50-115

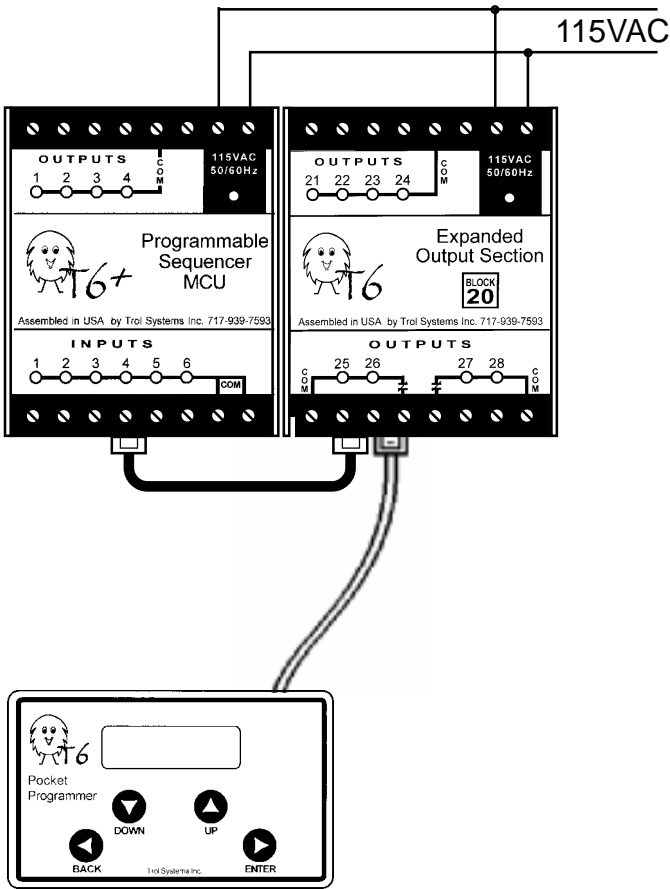
0/8-60-115

0/8-70-115

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.



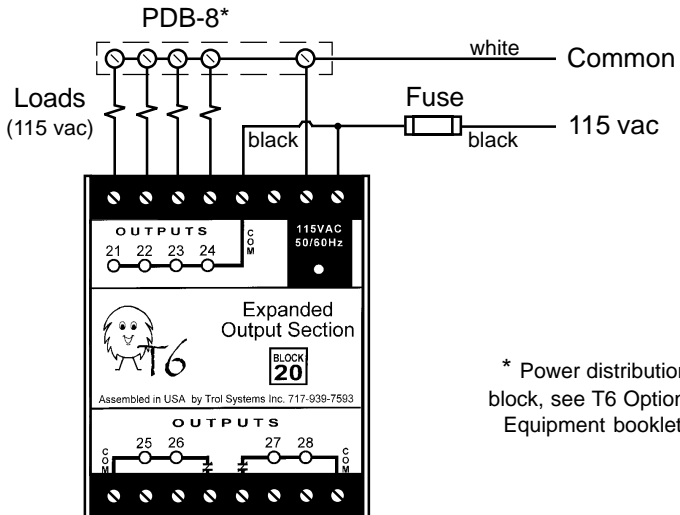
Wiring the supply

I/O sections with part numbers ending in “115” require a 115VAC supply. It is good practice to fuse the supply. Connect the supply to the first two terminals marked “115VAC” as shown below. The third 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. 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.

Noise transients, caused when an inductive load is de-energized, may cause erratic behavior of electronic equipment as well as greatly shorten the life of relay contacts. The use of a load suppressor, part number 30165, is highly recommended. (See the optional equipment catalog). Here is a typical load configuration:

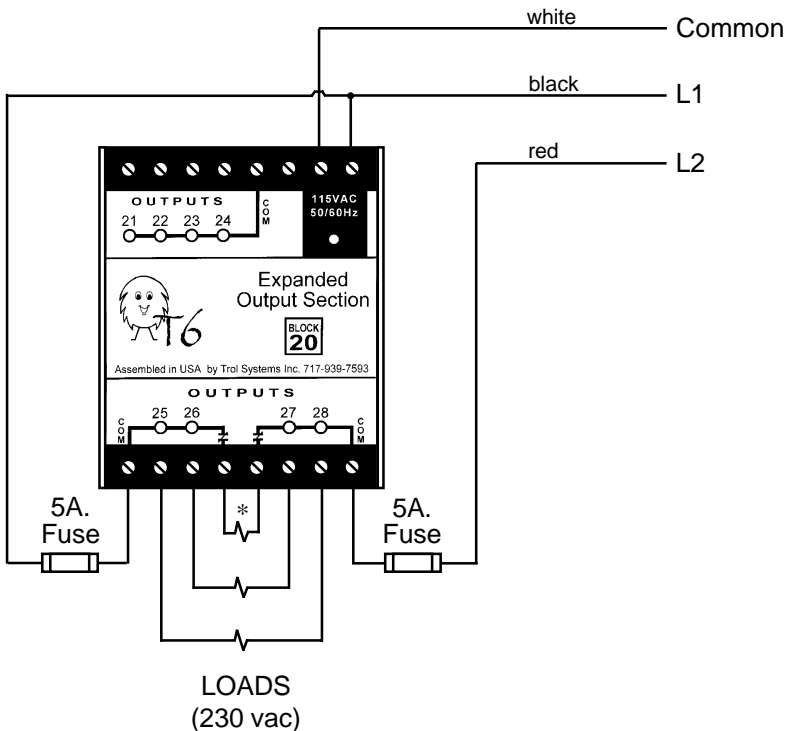


* Power distribution block, see T6 Optional Equipment booklet.

Wiring the outputs: x5 to x8

Each output contact can switch up to 5 amps at 230VAC. 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).

A typical 230vac load configuration is illustrated below. One bank switches L1 and the other bank switches L2. The voltage between the two lines is 230vac. With this configuration you must program both outputs that control each load to turn on/off. These outputs can also operate 115vac loads by placing a jumper wire between the two common terminals. Then configuring the power and loads as shown for outputs x1 to x4.



* This load (connected to the normally closed contacts) is energized when outputs x6 and x7 are both turned off.

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.

BEGIN A NEW
PROGRAM?

Power up the programmer (by MCU or optional power pack) and enter the Main menu.



SETUP T6
OPTIONS?

In the Main menu choose "setup T6 options", then press the Enter key.



SETUP MENU
ERASE PROGRAM?



SETUP MENU
ADD I/O?

In the Setup menu choose "add I/O", then press Enter.



ADD I/O
WHICH ONE? 20

Select the Block number of the I/O section you have added. The Block number is printed in a box on top of the unit and is also in the middle of the part number. Once the proper block number is displayed, press the Enter key.



BLOCK: X
OF INPUTS? 0

Select the number of inputs that the I/O unit has (0), then press the Enter key.



BLOCK: X
OF OUTPUTS? 8

Select the number of outputs that the I/O unit has (8), then press the Enter key.



SETUP MENU
ERASE PROGRAM?

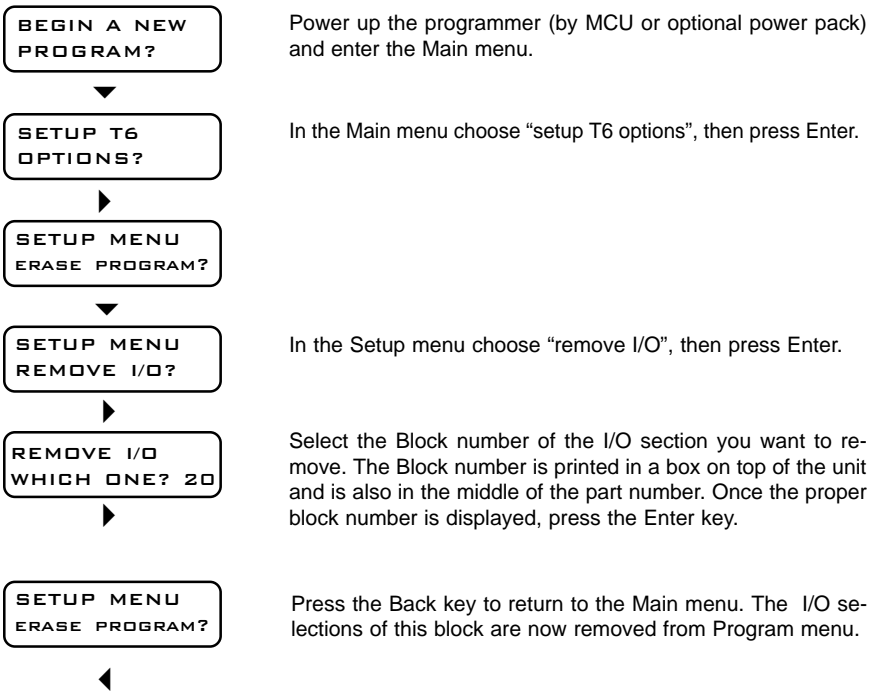
Press the Back key to return to the Main menu. The output selections of this block will now appear in the Program menu.



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.



Specifications

Part No: 0/8-20-115, 0/8-30-115, 0/8-40-115, 0/8-50-115,
0/8-60-115, 0/8-70-115

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

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