

F4T
WITH INTUITION

D4T
WITH INTUITION

F4T Process Controller

D4T Data Logger



Follow the steps in this quick start guide to set up your new Watlow F4T/D4T

For assistance contact Watlow: www.watlow.com
1-800-WATLOW2 (1-800-928-5692)
wintechsupport@watlow.com
• <http://www.watlow.com/F4T.cfm>
• <http://campaign.watlow.com/d4t>

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F4T



F4T/D4T

D4T



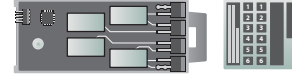
CONTENT ITEMS AND RECOMMENDED TOOLS

Hardware/Software

a. F4T/D4T



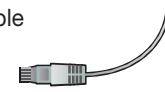
b. Flex Module(s) (FM) and label stickers



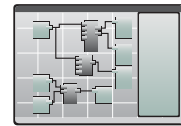
c. PC



d. Ethernet cable

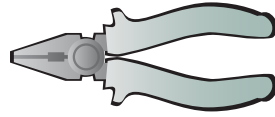


e. Composer PC Software (install program found on the Watlow Support Tools DVD or website)



Tools

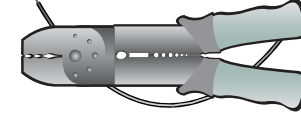
f. Medium size pliers



g. Small flathead screwdriver



h. Wire (14 to 26 AWG) and wire stripper



1.



Note:

Take care to protect the glass touch screen.

Best Practice:

Complete the following procedure for one FM at a time working from slot 1 to 6.

1. Select a slot for the FM.

Note:

Communications modules (FMCA-XXXX-XXXX) work only in slot 6. Slot numbers are molded into the case and shown in the diagram on the label (image A).

Note:

If a terminal block overlaps the slot, remove it temporarily, loosening it with a small screwdriver (image B).

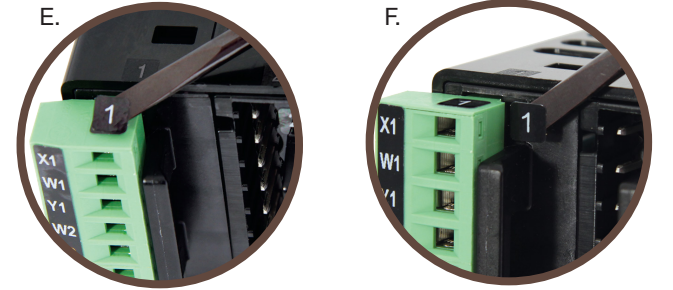
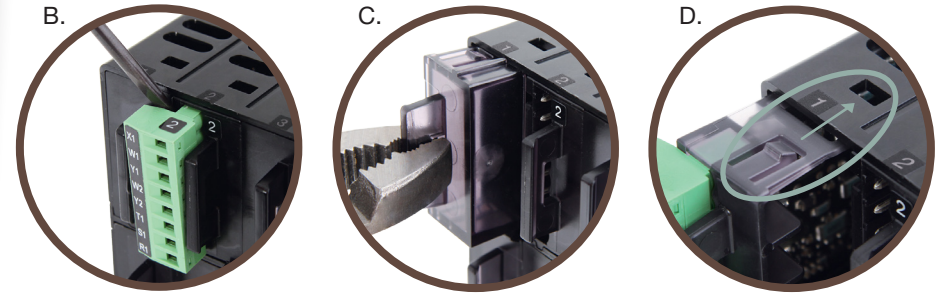
2. Using pliers, remove slot plug by pulling straight back (image C).

Note:

FM is right-side up when its locking tabs align with the mating holes (image D).
3. Slide FM in until it clicks firmly in place.

4. Using the stickers packaged

INSTALL FLEX MODULES (FM)



with the FM, label the terminal block with its slot number (image E).

5. Apply a matching label to the FM (image F).

Option:

If mounting unit to equipment is desired at this stage see Step 6 before proceeding to Step 2.

2.

CONNECTIONS

1. Connect F4T/D4T to power source (image A).

F4T or D4T (digits 1, 2 and 3 of part number)
----- (digits 4 through 15)

1, 2, 3 or 4: 120 to 240 VAC
5, 6, 7 or 8: 24 V (AC or DC)

Caution:

Do not connect high voltage to a controller that requires low voltage.

2. Ethernet communication: Connect the F4T/D4T to the network your PC is on (image B).

Note:

It is an option to connect the F4T/D4T via Ethernet directly to a PC. See the F4T/D4T Installation and Troubleshooting User's Guide chapter 3.

Optional:

To avoid open sensor error messages, temporarily jumper S1 and R1 terminals on all removable screw terminal blocks or see corresponding FM Quick Start Guide to connect sensors (image C).

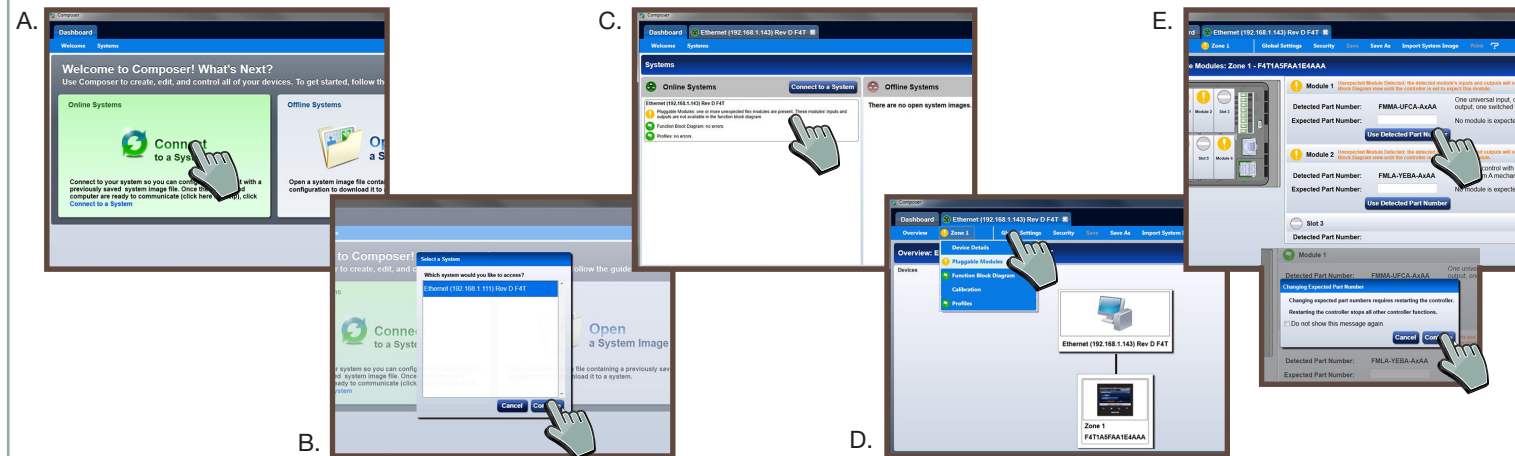
Warning:

See safety information in the "General Information" section of this document.



3.

INSTALL COMPOSER® SOFTWARE AND CONFIGURE A CONTROL LOOP



1. Install Composer PC software (install program from control tools DVD or website); run the setup program and follow on-screen instructions.
2. Run Composer and click "Connect to a System" (image A).
3. Select the system and click "Continue" (image B).
4. Double-click the system in the open systems list (image C).

5. From the "Zone 1" menu, choose Pluggable Modules (image D).
6. On the first module click "Use Detected Part Number" then click "Continue" (images E).
7. For each other module click "Use Detected Part Number"
8. Click "Finish" and then click "Go to Function Block Diagram".

Optional:

View the tutorial videos to learn how to set up a control loop (F4T only).

9. Select "Auto hide this window by default" to dock the tutorial window.
10. To configure a control loop: drag a control loop from the library to the canvas. Drag a signal from an input block to the PV receiver on the control loop. Drag a signal from the HT transmitter on the control loop to the output block (images F-H).

Note:

For sensors other than type J thermocouple, double-click the input block and set the sensor type in the Parameters window (image I).

Optional:

Use additional function blocks to configure more of your application or come back to this later.

