

Disio Display Thermostat

Quick Start Guide

General Description

The 24 VAC Disio Display thermostat is a thermostat/controller designed to provide control for the following 3 main applications:

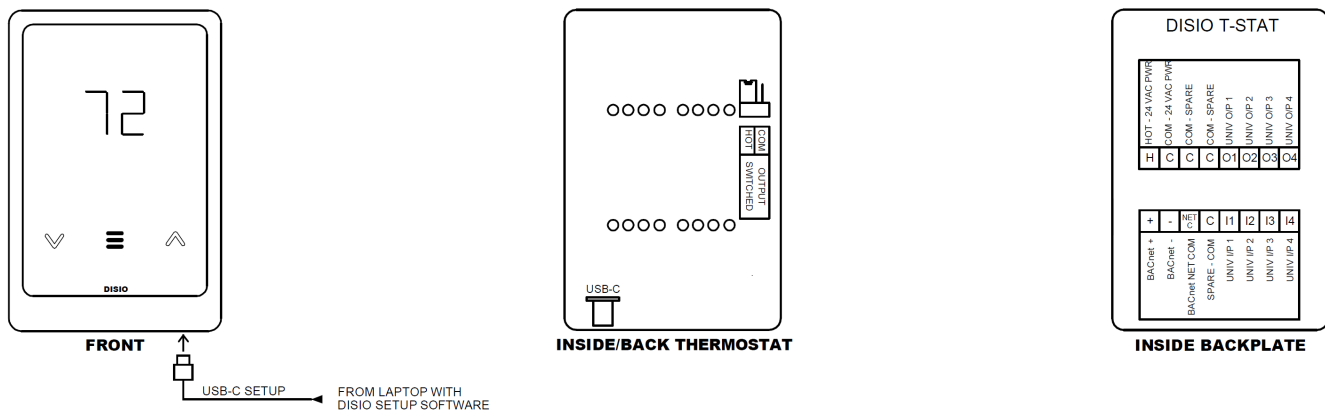
- Reheat (DX – 50)
- Pressure Dependent Damper Control (DX – 1XX)
- Fan Coil (2 pipe and 4 pipe) (DX – 3XX)

The Disio Display thermostat works as a standalone control thermostat. Disio Display thermostats ordered with optional BACnet can be connected to a BACnet network through its native BACnet MS/TP connection for remote control and monitoring. A USB-C jack on the bottom of the controller allows connection to a Windows based laptop for easy onsite configuration and monitoring using the free Disio Setup software. Download the Disio Setup software for Windows operating systems at disio.io/setup/.

Location:

1. Mount the thermostat in a place that is convenient for the end user, but please note the following:
 - a. Do not mount the thermostat in direct sunlight (across from a window)
 - b. Do not install on an outside wall
 - c. Keep away from heat generating equipment (monitors, heaters, photocopiers, etc.)
 - d. Be sure thermostat is mounted to allow vertical air circulation (i.e. Do not cover!)

Connection Description

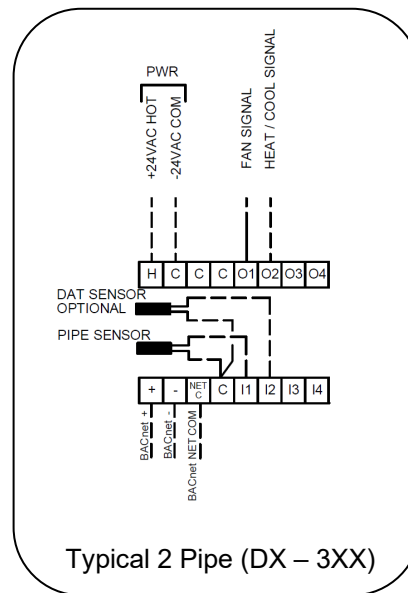
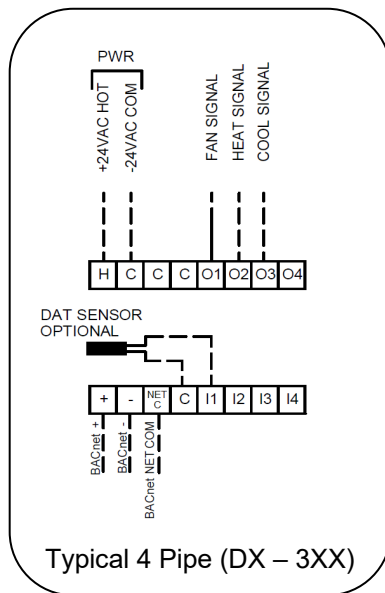
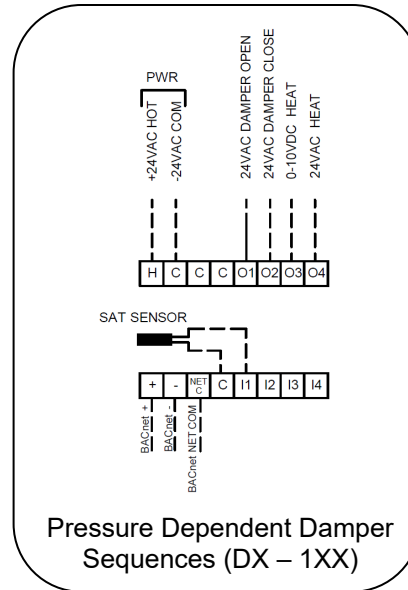
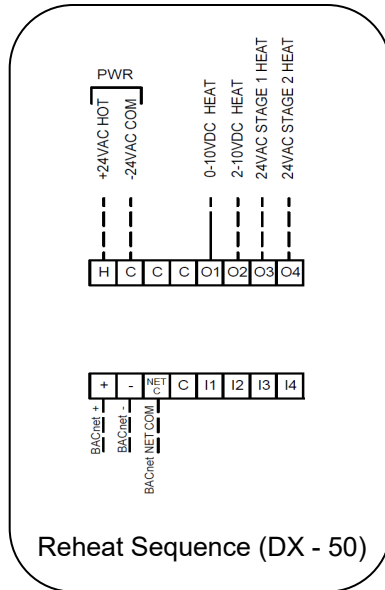


Connection Type	Connection Label	Description
Power	H	24 VAC Hot (50/60 Hz, 6 VA plus external loads)
	C	24 VAC Common
Universal Outputs	O1 – O4	Configurable for: - 24 VAC On/Off (0.50 Amps Max per O/P) Switched Hot (Default) - 24 VAC Floating Point Modulation (Damper / Water Valve) - 0-10 VDC Modulation, 10mA max per O/P (Damper / Water Valve / SCR Electric Heat)
Universal Inputs	I1 – I4	Configurable for: - Binary Input – Contact Closure - Thermistor Input (10k Type J), accuracy of +/- 1-2° F from 70° F to 82° F - Voltage Input (0-10 VDC)
BACnet MS/TP	+	BACnet MS/TP Connection, Positive (+)
	-	BACnet MS/TP Connection, Negative (-)
	NET C	BACnet MS/TP Connection, NETCOM, (NET C)
Outputs Switched Jumper	BO Source	Outputs will either send 24 VAC hot or common depending on jumper position Jumper ships in the switched hot position by default
Disio Setup Jack	USB-C	Allows connection to a Windows laptop with the free Disio Setup software to install new sequences, and monitor all inputs, outputs, and control functions in real time

NOTE: Polarity on power is important and must be observed on all devices.

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Typical Wiring Diagrams



Note:
All Price terminal unit dampers operate as:
CW = Open
CCW = Close

Exception:
LGB Bypass units operate as:
CW = Close
CCW = Open

7 Segment Key

<i>RP</i> Application	<i>tU</i> Temperature Units	<i>OR</i> Outdoor Air
<i>FH</i> Reheat	<i>C</i> Celsius	<i>nP</i> No Probe
<i>L9</i> LGB/Linear Gate	<i>F</i> Fahrenheit	<i>dP</i> Damper Position (0-99%)
Bypass	<i>rT</i> Room Temperature	<i>dT</i> Damper Target (0-99%)
<i>tE</i> Terminal Unit	<i>CL</i> Cooling Load (1-99%)	<i>SA</i> Supply Air Temperature
<i>FC</i> Fan Coil	<i>HL</i> Heating Load (1-99%)	<i>nP</i> No Probe
<i>2P</i> Fan Coil 2-Pipe	<i>n</i> Neutral (0)	
<i>4P</i> Fan Coil 4-Pipe	<i>Pt</i> Pipe Temperature	
<i>F5</i> Fan Status	<i>C</i> Water Temperature Cold	
<i>FO</i> Fan Off	<i>H</i> Water Temperature Hot	
<i>F1</i> Fan Low	<i>n</i> Water Temperature Neutral	
<i>F2</i> Fan Medium	<i>nP</i> No Probe	
<i>F3</i> Fan High	<i>OR</i> Discharge Air	
<i>F4</i> Fan	<i>nP</i> No Probe	

Additional Wiring Diagrams

Can't find the wiring for your specific application?

Visit us at disio.io/display for a complete list of sequences and wiring diagrams for the Disio Display Thermostat. Download the Disio Setup software for Windows computers at disio.io/setup/

Note: Values of 99% are equal to 100%
Example: Damper Position 100% = Damper Fully Open