Motor Controller Jumper Pin Overview

Turntide motor controllers are designed for several applications. The jumpers are used to configure the motor controller for a specific application. The table below helps illustrate the jumper usage and settings.

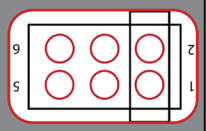
The Input Mode jumpers determine the inputs the motor controller recognizes. The most common configuration is a jumper across pins 1&2 another across pins 5&6. Pins 1&2 enable MODBUS, should it be used. Pins 5&6 set the motor controller to respond to 24VAC inputs.

The Universal Input (UI) jumpers defines the connected device type. Currently UI1 and UI2 are used in applications with Supply and Return Air sensors. Setting the respective jumpers across pins 1 & 2 configure the control to respond to the resistive load of the thermistor.

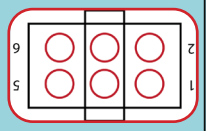
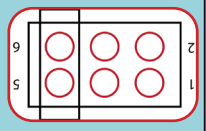
IMPORTANT NOTE: Mode Input Selection must be jumpers 1&2 and 3&4 OR 1&2 and 5&6.

Motor Controller Model	Modbus EOL Jumper	Digital Input Mode Jumper	Universal Input Mode Jumpers			
			UI1	UI2	UI3	UI4
P04W	J96	J96	J5125	J111	J112	J113
P05	J96	J96	J5125	J111	J112	J113
SL120	J10	J10	J11	J12	J13	J14

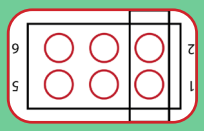
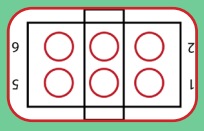
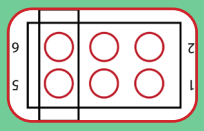
Modbus EOL Selection

Pin Selections	Mode	Examples
1&2 	Installed: Enables EOL Resistor (End of Line) Removed: Disables EOL Resistor (End of Line)	Install if wiring to terminals D+/D- is end of daisychain.

Digital Input Mode Selection

Pin Selections	Mode	Examples
3&4 	Enables digital inputs LOGIC or dry contact mode.	Install if S1 thru S7 will be used to receive contact closures for control.
5&6 	Enables digital inputs 24VAC signaling mode.	Install if S1 thru S7 will be used to receive 24VAC input singnal from existing BMS or thermostat.

Universal Input Mode Selection

Pin Selections	Mode	Examples
1&2 	Resistive/LOGIC: Returns resistance of connected element or ON/OFF if declared as resistive or LOGIC mode respectively.	Resistive: 2 wire 10KΩ thermistor LOGIC: Dry contact closure = ON Dry contact open = OFF
3&4 	Voltage: 0-10V singal ended voltage input.	3-wire device with external power source that provides a 0-10V signal. (1 signal, 1 common, 1 power)
5&6 	Current: 0-20mA current input.	3-wire device with external power source that provides a 0-20MA signal. (1 signal, 1 common, 1 power)