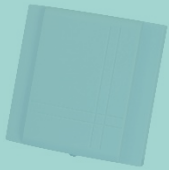




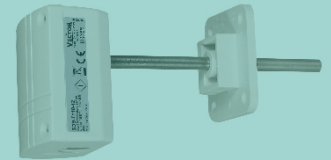
Duct Mount
Humidity/Temperature Transmitter



Wall Mount
Humidity/Temperature Transmitter



Thermal Well



Duct Mount
Temperature Sensor
(For Control of Heater LAT or
Pool Water Temp)

TCI-W22 Universal Controller

Features

- PID loop control
- Staged or modulating heat output
 - Easy to use interface
- High and low limit alarm capable
- 2 Universal Inputs, 2 Binary Outputs, 1 Analog Output
 - Custom Programming Options
 - 2 Independent Control Loops

Typical Setup Options

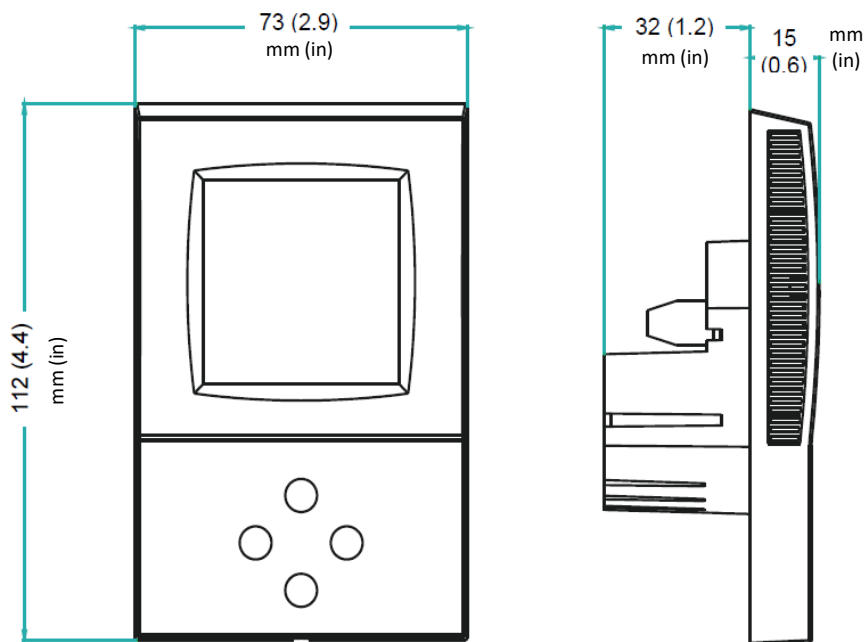
Control Features	Logic Options					
	A	B	C	D	E	F
1 Stage Dehumidification	•	•	•	•	•	•
1 Stage Cooling	•	•	•	•	•	•
2 Stage Heating	•			•		
Analog Heat Signal (no Supply Air Temperature Control)		•			•	
Analog Heat Signal with Supply Air Temperature Control			•			•
Pool Water Heating				•	•	•
Controllers Required						
1 x TCI-W22		•				
2 x TCI-W22	•		•		•	
3 x TCI-W22				•		•

These are most typical programming logics and are not meant to be used as control package selections. Please contact factory to check what package would suit your application.

Technical Specifications

Power Supply	Power Requirements	24 VAC $\pm 10\%$, 50/60 Hz, Class 2, 2.0 A, 48VA max. 24 VDC $\pm 10\%$
	Power Consumption	Max. 3 VA
	Electrical Connection	Terminal Connectors 0.34...2.5 mm ² wire (AWG 24...12)
Signal Inputs	Universal Input Input Signal Resolution Impedance	Setting for Voltage or Current 0-10 V or 0-20 mA 9.76 mV or 0.019 mA (10 bit) Voltage: 98k Ω Current: 240 Ω
	Universal input Range Accuracy	Input configured to remote temperature (RT) or digital input (DI) NTC (Sxx-Tn10 sensor): -40...140 °C (-40...284 °F) -40...0 °C (-40...32 °F): 0.5 K 0...50 °C (32...122 °F): 0.2 K 50...100 °C (122...212 °F): 0.5 K > 100 °C (> 212 °F): 1 K
Signal Outputs	Analog Output Output Signal Resolution Output Load	DC 0-10 V / 0-20 mA 9.76 mV / 0.019 mA Voltage: $\geq 1k\Omega$ Current: $\leq 250\Omega$
	Relays Outputs Type of Disconnection AC Voltage DC Voltage	Micro-interruption 0...48 VAC, 2(1.2) A max. (Observe local regulation) 0...30 VDC, 2A max.
	Insulation Strength between relays contacts and system electronics: Between neighboring contacts:	2000V AC to EN 60 730-1 1250V AC to EN 60 730-1
Environment	Operation Climatic Conditions Temperature Humidity	To IEC 721-3-3 Class 3 K5 0...50 °C (32...122 °F) <95 % r.H. non-condensing
	Transport & Storage Climatic Conditions Temperature Humidity Mechanical Conditions	To IEC 721-3-3 and IEC 721-3-1 Class 3 K3 and Class 1 K3 -25...70 °C (-13...158 °F) <95 % r.H. non-condensing Class 2M2
Standards	CE conformity EMC directive Low Voltage Directive	2014/30/EU 2014/35/EU
	Product Standards Automatic electrical controls for household and similar use Special requirements on temperature dependent controls	EN 60 730-1 EN 60 730-2-9
	Degree of Protection	IP30 to EN 60 529
	Pollution Class	II (EN 60 730-1)
	Safety Class	III (IEC 60536)
	Overvoltage Category	I (EN 60 730-1)

Dimensions



Display

Loop Indication

Standard Display (no buttons pressed for 30 sec.): Not visible
 Loop display: Bar at 1 = Loop 1, Bar at 2 = Loop 2

Small Digits

Display of Setpoint or Parameter Value (refer to the table on the wiring diagram of dehumidifier)

Mode

Display of Operation Mode (Visible only in the Loop Display Mode)

Indicators

Standard Display: Active digital outputs (at 1, 2) (i.e. dehumidification, cooling)
 Loop Display: Active digital stages (at 8, 9, 10) – typically same as active digital outputs

Left (POWER)

Turn Unit OFF. Text OFF displayed with temperature and/or humidity shown.

Large Digits

Display of Input or Parameter Value (refer to the table on the wiring diagram of dehumidifier)

Vertical Bar

Scrolls up or down with 10% increments, shows output value (typically heat signal)

Up

Increase Set Point

Right (OPTION)

Select Control Loop

Down

Decrease Set Point

