



### Humidistat/Demunidistat Bard Part #8403-100

The product features a backlit digital display and easy to use setup process. When used with Bard dehumidification products, the 8403-100 provides an easy to use means of measuring indoor humidity.

Although the 8403-100 dehumidistat has the ability to be used with a field supplied humidifier, typically when used with Bard dehumidification products it serves as a method of monitoring indoor humidity and controlling moisture reduction operation. Common uses of this product include the following:

- Activating dehumidification operation when using the MC4002 Lead Lag controller and two wall mount products.
- Controlling humidity using a Bard indoor or outdoor product equipped with a dehumidification option. The humidistat is paired with a field supplied thermostat or controller that provides temperature control.



# ////// SPECIFICATIONS



**Supply Voltage:** 18 to 30 VAC (50/60 Hz)

**Amps:** 0.1 A, 2 VA

**Dimensions:**

Width: 3.4 in.  
 Height: 1.27 in.  
 Length: 4.5 in.  
 Weight: 0.5 lbs

**Shipping Dimensions:**

Width: 4.05 in.  
 Height: 2.55 in.  
 Length: 5.88 in.  
 Weight: 0.67 lbs

**Humidity Ranges:**

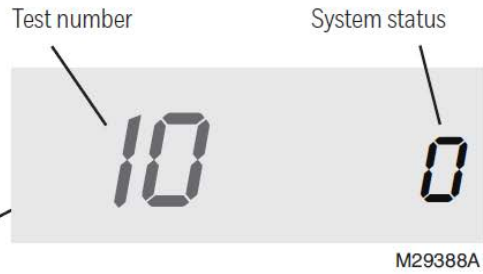
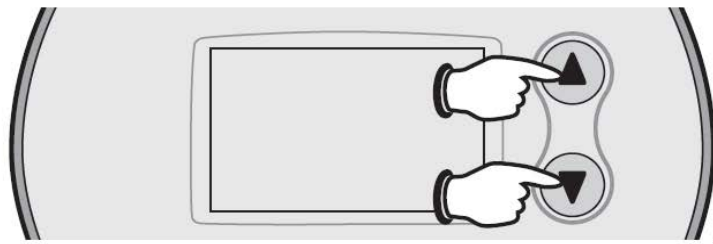
- Humidify Control Range:
- 20 - 60 % (Automatic mode)
  - 10 - 90 % (Manual mode)
- Dehumidify Control Range:
- 40 - 80 % (Automatic mode)
  - 10 - 90 % (Manual mode)
- Operating Ambient Temperature
- 32 to 120 °F (0 to 48.9 °C)
- Operating Relative Humidity
- 5 to 95 %, non-condensing

**Relative Humidity Accuracy:** +/- 5 % RH

FUNCTION NUMBER	SETTING	
	DISPLAYED	DESCRIPTION
<b>1 System Type</b> Select dehumidifier for dehumidification operation	1	<b>Humidifier</b>
	2	Dehumidifier
<b>4 Control Mode</b> Manual appears if no outdoor sensor is connected	1	<b>Automatic</b>
	2	<b>Manual</b>
<b>5 Automatic Mode RH% (Hum)</b> No setting required	Range: 20% - 60% <b>Default = 35%</b>	
<b>11 Automatic Mode Humidity Boost</b> No setting required	1	<b>Humidifier</b>
	2	Dehumidifier
<b>17 Automatic Mode High Temp Shut-Off</b> No setting required Increases Preset RH% (#5) when user sets window protection to 11.	Range: 40° - 90° 0 = OFF <b>Default = 64°</b>	
<b>19 High Hum Limit</b> No setting required for dehumidification	Range: 10% - 90% <b>Default = 60%</b>	
<b>20 Low Hum Limit</b> No setting required for dehumidification	Range: 10% - 90% <b>Default = 10%</b>	
<b>21 High Dehum Limit</b> Set to maximum humidity setting to enable dehumidification setting	Range: 10% - 90% <b>Default = 80%</b>	
<b>23 Low Dehum Limit</b> Set to maximum humidity setting to enable dehumidification setting	Range: 10% - 90% <b>Default = 40%</b>	
<b>25 Dehumidifier Compressor Lockout</b> No setting required	0 - 5 Minutes <b>Default = 0 Minutes</b> <b>OFF</b>	
<b>30 Humidity Sensing Calibration</b> Adjust to calibrate humidity sensor	Range: -9% to +9% <b>Default = 0</b> (Displays Actual RH%)	
<b>35 Outdoor Temperature Sensor Calibration</b> Not setting required	Range: -9° to +9° <b>Default = 0</b> (Displays Actual Outdoor Temp)	



///// INSTALLER SYSTEM TEST/CHECKOUT



To begin, **press and hold** the ▲ and ▼ buttons until the display changes.

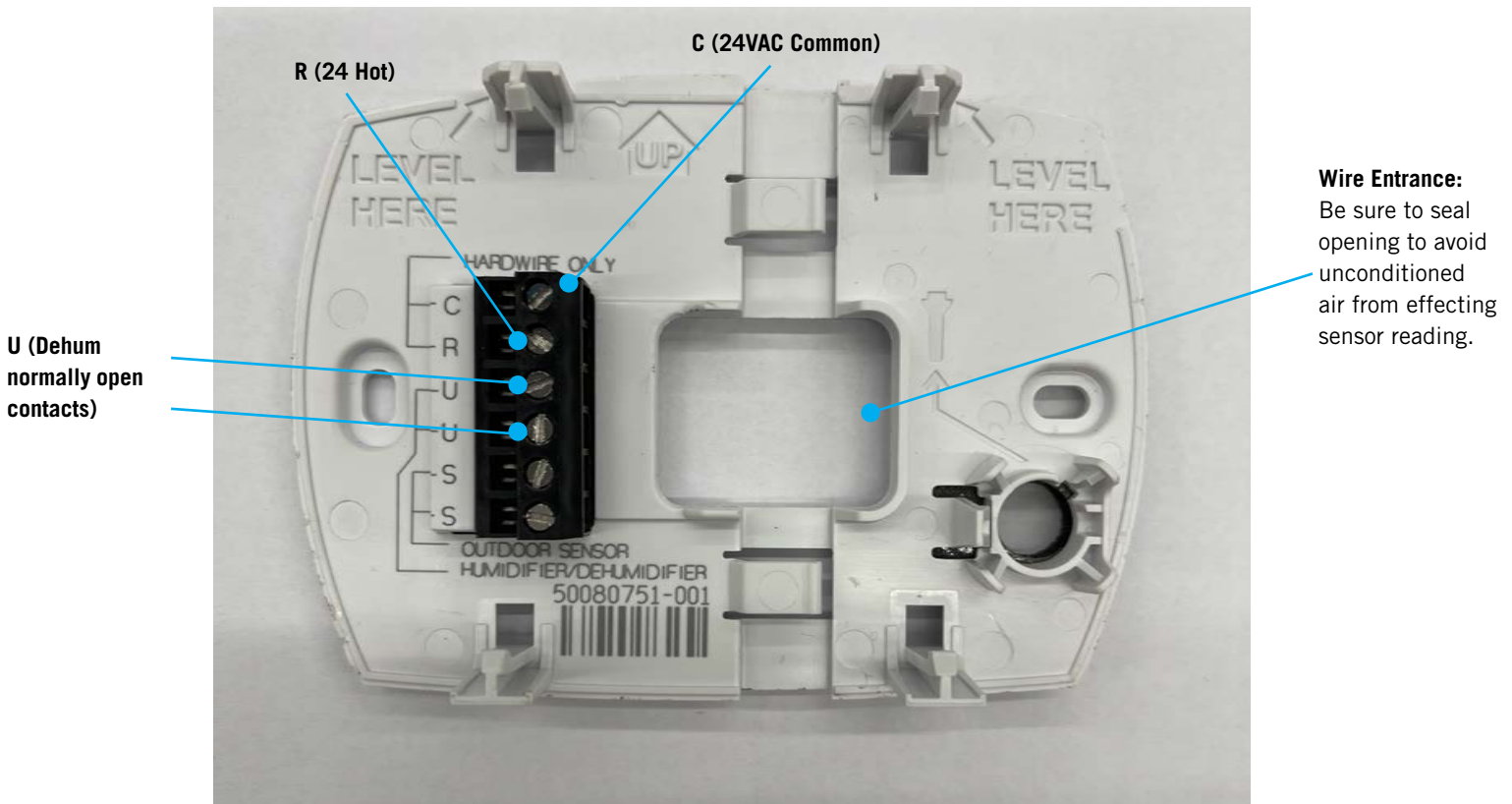
Press ▲ / ▼ to turn system on/off.  
 Press **NEXT** to advance to next test.  
 Press **DONE** to terminate system test.

FUNCTION NUMBER	SETTING	
	DISPLAYED	DESCRIPTION
<b>10 System Test</b>	0	OFF
	1	ON
<b>20 View Outdoor Temperature</b> Not used	Shows Outdoor Temperature	

**NOTE:** Most humidifiers require airflow in the system to operate. Make sure to turn on the system fan when testing humidifier operation.

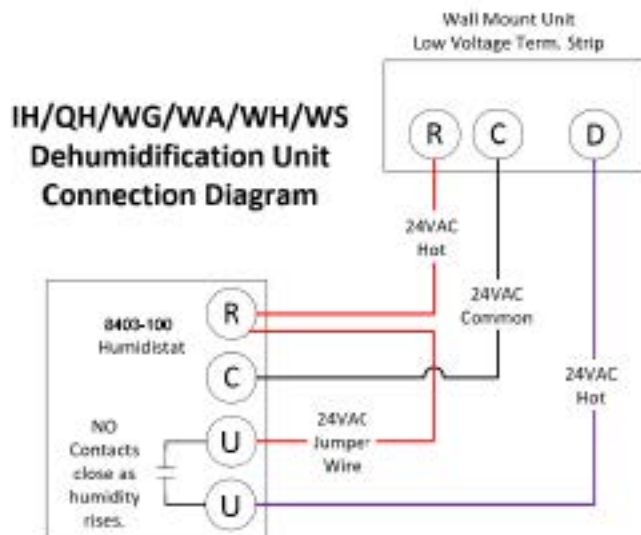
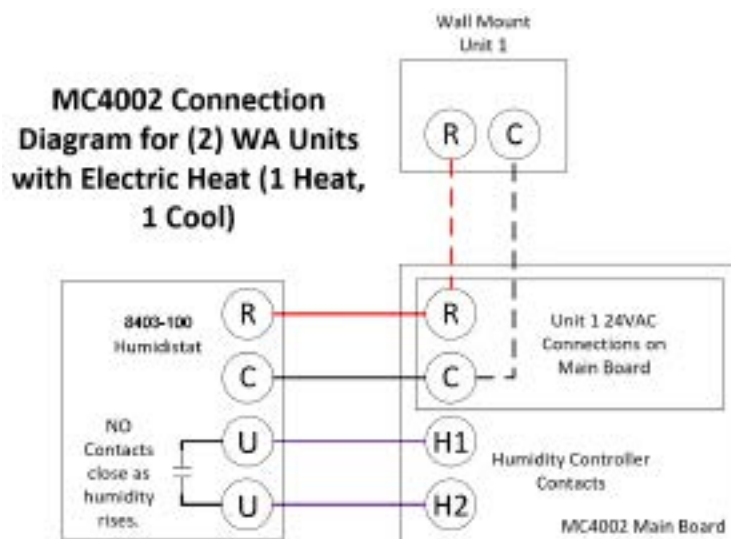
**Caution:** If running a dehumidifier, compressor protection is bypassed during testing; avoid cycling the compressor too quickly.

**NOTE:** The Bard unit may already have built in compressor protection. Refer to product installation instructions.



8403-100 Humidistat





**NOTE:** Make sure to set for dehumidification in setup menu.

////////// TROUBLESHOOTING

If you have difficulty with your humidity control, please try the following suggestions. Most problems can be corrected quickly and easily.

**Display is blank**

- Check circuit breaker and reset if necessary.
- Check for 24VAC between R and C at the wall plate.
- Make sure power switch at Bard unit is on.
- Make sure all doors are closed securely.

**Humidity settings do not change**

- Make sure the humidity is set to an acceptable range:
- Check current range stop settings in Installer Setup.
  - Dehumidification Mode: 50%–80%

**Humidifier/Dehumidifier will not turn on**

- Make sure the humidity is set to an acceptable range:
- Check current range stop settings in Installer Setup.
  - Dehumidification Mode: 50%–80%

