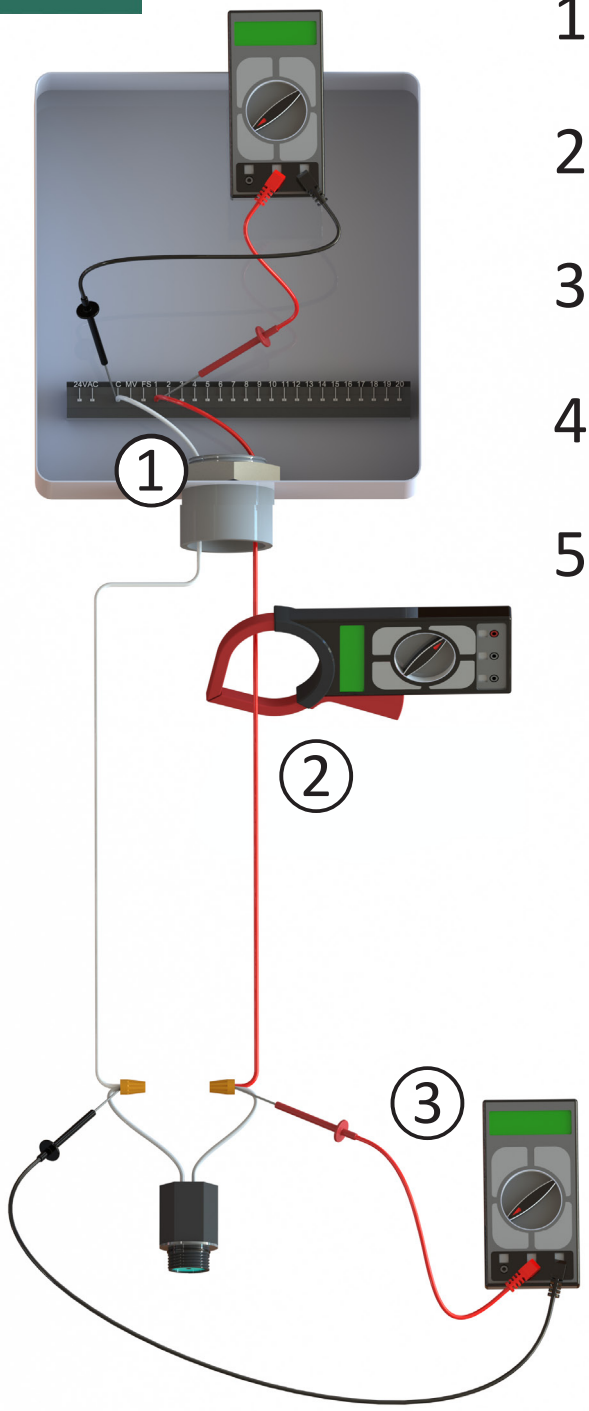
Existing wire quality check



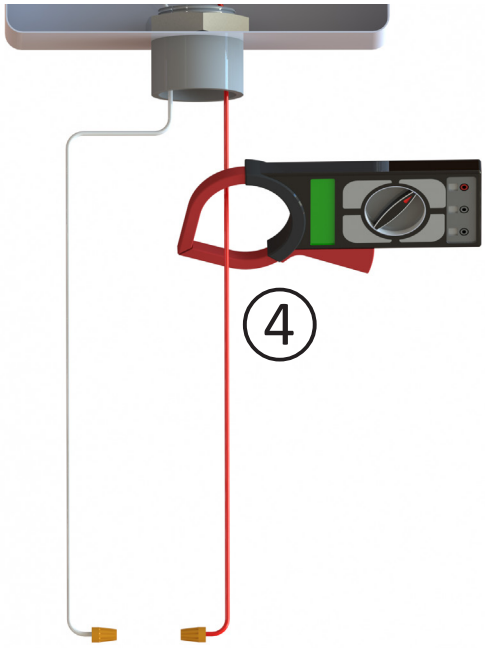
1 Turn on the station that will be used as the support valve. Make sure its solenoid is connected. Measure the voltage at the controller. Expected range is **22 - 28 VAC.**

2 Measure the current in the active station wire close to the controller. Expected range is **150 - 350 mA**.

3 Measure the voltage at the active station valve with its solenoid connected. Expected range is **16 - 28 VAC**.

4 Disconnect the active solenoid. Make sure that you cap the wires feeding the solenoid. Measure the milliamps again like in step 2. **The range must be within 0 - 5 mA**.

5 Calculate the wire resistance using the formula shown below. **The range must be within 0 - 15 Ohm.**
If the values in step 4 and/or 5 are outside the specified range, you must perform a fault tracing on your wires.



Wire resistance calculation:

$$\frac{\text{(Step 1 voltage measure - step 3 voltage measure) * 1000}}{\text{Step 2 current measure (mA)}} = \text{Wire resistance}$$

Calculation example:

$$\frac{\text{(25 V - 23 V) * 1000}}{\text{200 mA}} = \text{10 Ohm}$$

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