Testing 200P Wind Vane

INTRODUCTION

The NRG 200P Wind Vane is a potentiometer-based sensor. As such, there are two measurements that can be performed across the sensor's terminals to ensure the electrical output is working properly.

TOOLS REQUIRED

- Digital voltmeter (DVM)

TESTING

Test 1: Measure across (+) and (-) terminals

1. Disconnect the #200P wind vane from the data logger.
2. Set your digital volt meter to the 200K Ohm scale.
3. Measure resistance between the first and last terminals (skipping the center terminal).
4. An acceptable reading is approximately 10K Ohms nominal (minimum 8K Ohms, maximum 12K Ohms).

Test 1: Measure across (+) and (-)

Test 2: Measure between Signal and (+), Signal and (-)

- With the DVM still on the 200k Ohm scale, measure from each outside terminal to the center terminal.

- The DVM should display a reading between 0K and 10K Ohms (depending on the position of the tail of the vane relative to the body of the vane) in each of these two cases.

- If these measurements are done without changing the direction of the vane, adding the two resistance readings together should equal the total resistance from Test 1.

Test 2: Measure between Signal and (+), Signal and (-)