



Wiring sensors together to obtain an average temperature from a large area is a common practice in certain applications. The important point to remember is that the tekmar sensors are thermistors and use changing resistances to measure temperature. To obtain a correct reading from multiple sensors, they must be wired together in series parallel, and this limits the choices you have as to the number of sensors. Series parallel sensor arrays must use either: 4 sensors, 9 sensors, 16 sensors, 25 sensors, etc.



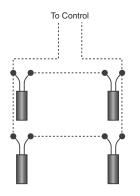
Wire two sensors in series.

Resistance is double the correct reading for one sensor.



Wire two more sensors in series.

Resistance is double the correct reading for one sensor.



Wire the two series sensors arrays in parallel and the resistance of all four will give the correct reading for the average temperature.



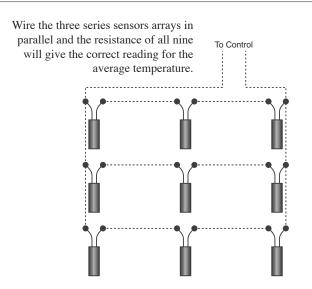
Wire three sensors in series.
Resistance is triple the correct reading for one sensor.



Wire three more sensors in series. Resistance is triple the correct reading for one sensor.



Wire three more sensors in series.
Resistance is triple the correct reading for one sensor.



Note: These are only concept drawings. The designer must determine whether this system will work in his application and confrom to code requirements. Necessary auxiliary equipment and safety devices must be added.

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