

Solar Shielded Temperature Sensor

The SEN-TN21/S consists of an Argus thermistor type temperature sensor mounted in a heat reflective, passively ventilated solar shield.



Applications



The module consists of a SEN-TN21 temperature sensor, housed inside a cylindrical, powder coated aluminum housing. Solar-shielding enables the use of a reliable, accurate, and inexpensive Argus TN series sensor in areas where an exposed sensor would provide inaccurate readings due to solar heat gain.

Typical applications include greenhouses, crop shelters, and other sunny locations.

Alternatives

For general temperature measurement applications that do not require solar shielding, **TN2**, **TN21** and **TN100** sensors are available (the numbers indicate the lengths of the leads). Several aspirated modules are available for air temperature monitoring either alone or in combination with humidity, light, and CO₂ measurement. A variety of other application-specific sensors are also available for measuring temperatures in soils, pipes, tanks, liquids, etc.

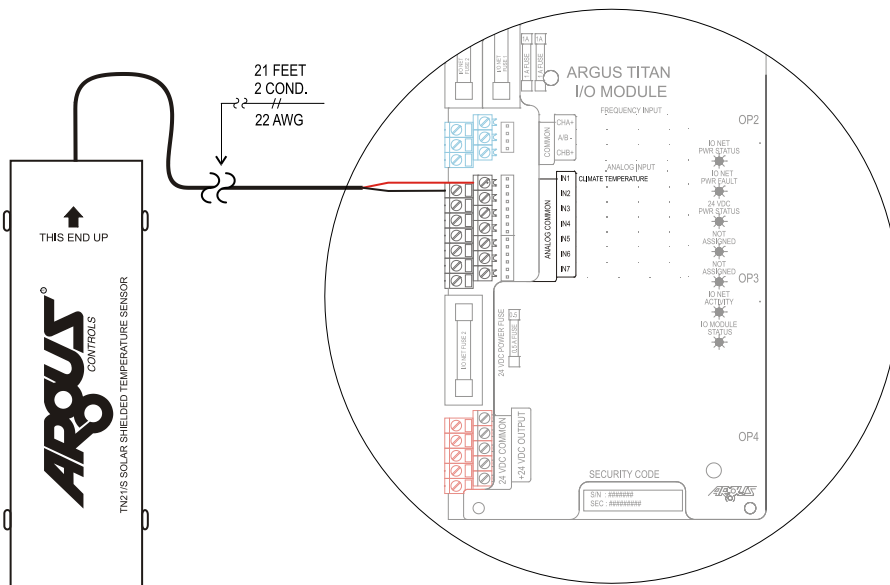
Features

- **Quality Construction** - The durable aluminum housing is designed to provide convective airflow past the temperature sensor while shading it from solar heat gain. The sensor is securely fixed in place to ensure reliable, repeatable readings.
- **Ease of Installation** - The lightweight housing hangs from its own electrical lead.
- **Field Replaceable** - Sensor can be easily removed and replaced in the field.
- **Maintenance free** - Compared to aspirated sensors there are no moving parts or filters.
- **Repositionable** - The suspended unit is easily repositioned to accommodate different crops and crop heights.

Specifications

Dimensions	7" x 2.25" (length x diameter)
Construction	White powder coated extruded aluminum, plastic stand-offs, stainless steel screws
Conductors	21 ft. of 22 AWG UV resistant wire leads (can be field extended: 2-conductor, 18 AWG UTP recommended)
Sensor Type	Argus TN Thermistor (refer to the Argus Data Sheet SEN-TN for complete thermistor specifications)
Measurement Range Supported in Software Accuracy	- 50 °C to 150 °C ± 0.2 °C over the range 0 °C to 70 °C ± 0.5 °C over the range -50 °C to 150 °C (accuracy degrades by 0.1°C for every 1000 ft. of 18 AWG field wire used)

Wiring Details



TYPICAL WIRING CONNECTIONS TO ARGUS I/O MODULE

Typical wiring example. For installation, refer to the supplied wiring diagrams and instructions.

Additional Information

For more information, please contact Argus.

