NRG T60
TEMPERATURE SENSOR

NRG Systems' T60 Temperature Sensor builds on the NRG 110S's trusted design, offering improved temperature accuracy and long-term reliability in harsh environments. Ideally suited for remote wind and solar energy studies, the data from this sensor can be used to calculate energy density and atmospheric stability conditions, monitor air temperature, identify icing conditions in cold climates, and estimate PV panel efficiency.

Key Benefits:

• Same physical design, body materials, and radiation shield as 110S, ensuring seamless transition to T60

• Lower measurement uncertainty

• ILAC-compliant, NIST-traceable calibrations available from an ISO 9001:2008, ISO/IEC 17025:2017 certified laboratory

• Can measure up to 70°C (5°C greater than the 110S)

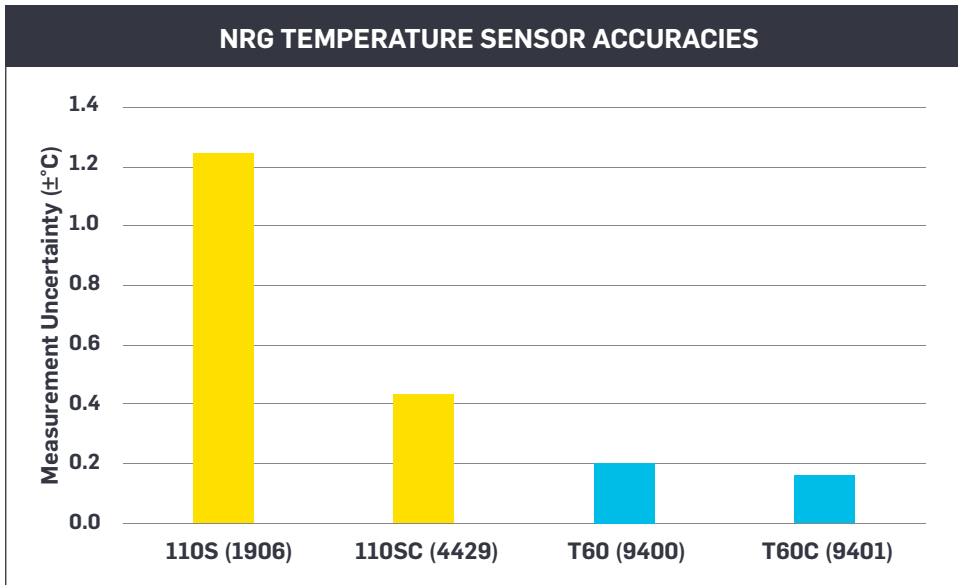• Suitable for the temperature measurement requirements of remote wind and solar energy studies

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SPECIFICATIONS

The NRG T60 Temperature Sensor was designed to be a drop-in replacement for the NRG 110S Temperature Sensor. Accordingly, most 110S characteristics have been maintained in the T60. This chart summarizes the key differences between the two sensors. Please visit our website for the full set of sensor specifications.

SPECIFICATIONS	110S (1906)	110SC (4429)	T60 (9400)	T60C (9401)
Sensor Type	Integrated circuit temperature sensor with six plate radiation shield			
Sensor Range (SymphoniePRO)	-40 °C to 65 °C (-40 °F to 149 °F)		-40 °C to 70 °C (-40 °F to 158 °F)	
Instrument compatibility	All NRG loggers			
Accuracy	Uncertainty (k=2): ±1.24°C (±2.23°F)	Uncertainty (k=2): ±0.43°C (±0.77°F)	Uncertainty (k=2): ±0.200 °C (±0.360 °F)	Uncertainty (k=2): ±0.164 °C (±0.295 °F)
Thermal Time Constant	10 minutes		5.38 minutes	
Supply Voltage	4 V to 35 V DC		5 to 15 V DC	
Supply Current	300 μA max. (no load on output)		1.2 mA max. (no load on output) • SymphoniePRO Pulsed: 0.85 mA average • SymphoniePLUS3 Pulsed: 0.43 mA average	
Lifespan	10 years +			

NRG TEMPERATURE SENSOR ACCURACIES

For more information:

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ISO 9001: 2015 Certified
ISO 14001:2015 Self-Certified

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