



Sentinel Next

RTD Probe for ultra-low freezers and liquid nitrogen chambers. Used in tissue and blood storage, pharmaceutical, and other healthcare applications.





RTD Probe



RTD with DI

Technical Specifications

Sentinel Next Wireless Unit

<i>Dimensions (HxWxD):</i>	89mm x 60mm x 14mm (3.50" x 2.36" x 0.55")
<i>Weight:</i>	102g (3.60oz)
<i>Connectors:</i>	10-pin Sensor Connector; micro USB for Charging
<i>Battery:</i>	Integrated 1000mAh Rechargeable Li-Ion Battery
<i>Optional LCD Display</i>	31mm X 11mm LCD Display
<i>Wi-Fi Protocols:</i>	IEEE 802.11b/g/n
<i>Wi-Fi Modes Supported:</i>	Wi-Fi Direct, Infrastructure, Remote
<i>Wi-Fi Encryption:</i>	WEP, WPA/WPA2 Personal, PEAPv0, PEAPv1, EAP-TLS
<i>On Board Data Storage</i>	1 Week with a Once/Minute Sampling Rate
<i>Operating Temperature:</i>	0°C to 40°C
<i>Non-operating Temperature:</i>	-30°C to 70°C
<i>Relative Humidity:</i>	10% to 90%
<i>Certifications:</i>	FCC, CE

RTD – Ultra Low Temperature Probe

<i>Probe Length & Diameter</i>	Stainless probe: 25mm, \varnothing 4mm (1", \varnothing 0.16")
<i>Cable Length</i>	183cm (6 ft)
<i>Measurement Range</i>	-200°C to +150°C (-22°F to +302°F)
<i>Accuracy</i>	$\pm 0.2^{\circ}\text{C}$ ($\pm 0.4^{\circ}\text{F}$) at 25°C (77°F)
<i>Response Time (to reach 90%)</i>	In water, with stirring: <10sec
<i>Display Resolution</i>	0.1°C, (0.1°F)

RTD Plus DI – Ultra Low Temperature Probe with DI input for Dry contacts.

<i>Probe Length & Diameter (RTD)</i>	<i>Stainless probe: 25mm, ø 4mm (1", ø 0.16")</i>
<i>Cable Length (RTD)</i>	<i>183cm (6 ft)</i>
<i>DI Probe</i>	<i>2 conductor 24AWG stranded copper wire</i>
<i>Cable Length (DI)</i>	<i>152cm (5 ft)</i>
<i>Measurement Range (RTD)</i>	<i>-200°C to +150°C (-22°F to +302°F)</i>
<i>Measurement Range (DI)</i>	<i>Open or Close (0-1)</i>
<i>Accuracy</i>	<i>±0.2°C (±0.4°F) at 25°C (77°F)</i>
<i>Response Time (to reach 90%)</i>	<i>In water, with stirring: <10sec</i>
<i>Display Resolution</i>	<i>0.1°C, (0.1°F)</i>
<i>Temperature Measurement Range</i>	<i>-40°C to +125°C (-40°F to +257°F)</i>
<i>Accuracy</i>	<i>±0.3°C (±0.5°F)</i>
<i>Relative Humidity Range</i>	<i>0 to +100% RH</i>
<i>Response Time (to reach 66%)</i>	<i>5 to 30sec for T; 8sec for RH</i>
<i>Display Resolution</i>	<i>0.1°C, (0.1°F)</i>

Software Solutions

[Sentinel Next APP](#)



Aginova Desktop Software

Aginova Web Hosted Services

Aginova Enterprise Software

WiBox API

Services

NIST certification services are available for the RTD temperature probe. Certification is performed in our ISO certified laboratory at a temperature point of your choosing from -40C to 100C.

IQ, OQ, PQ validation services are also available. More info on available services [here](#).

Contact us:

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