

AVTECH's lineup of digital temperature sensors monitor temperature in a variety of environments. With an operating range of -67° to 257° Fahrenheit (-55° to 125° Celsius), these "Plug and Play" sensors provide temperature values accurate to +/- 2° C to your Room Alert.



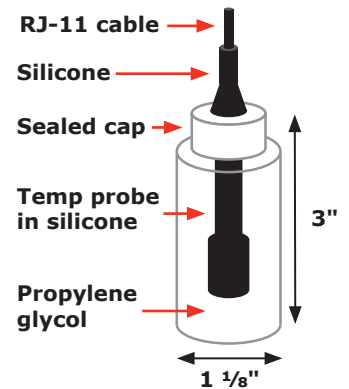
AVTECH's Digital Temperature Sensor monitors ambient indoor temperature. The 2" L x 3/8" diameter sensor housing is small and light-weight enough to install almost anywhere with no special tools.



AVTECH's Digital Outdoor Temperature Sensor monitors ambient temperature outdoors and in other harsh environments. A flexible silicone coating protects the temperature sensor from the elements, allowing it to function in environments where a standard sensor would not be advisable.



AVTECH's Digital Fluid Temperature Sensor monitors the temperature of fluids in refrigerated and other environments using a unique sensor housing. The temperature sensor is sealed in a tube filled with propylene glycol, a non-conductive clear liquid with a low freezing/high boiling point. The sensor returns the readings of the propylene glycol so that you may measure the consistent temperature held by the fluid rather than the ups and downs of the air moving around it.



Because propylene glycol gradually breaks down the sensor element's silicone coating, this sensor's lifespan is generally limited to approximately one year.

These sensors are available in 25', 50' and 100' lengths:

Length	Digital Temperature	Digital Outdoor Temperature	Digital Fluid Temperature
25'	TMP-SDT-SEN	TMP-DOT-SEN	TMP-DFT-SEN
50'	TMP-DT50-SEN	TMP-DOT50-SEN	TMP-DFT50-SEN
100'	TMP-DT100-SEN	TMP-DOT100-SEN	TMP-DFT100-SEN

Digital Temperature Sensor Package Contents

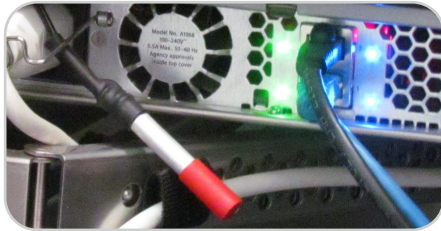
- One (1) Digital, Digital Outdoor or Digital Fluid Temperature Sensor with built-in RJ-11 cable

Install Your Digital Temperature Sensor



Do not use this sensor in hazardous (classified) locations or life safety applications.

1. Locate the sensor (the end with the red cap, red silicone cover or clear propylene glycol-filled tube) where you wish to measure temperature. Shown here are the Digital Temperature Sensor placed behind a server rack, the Digital Outdoor Sensor placed outside a window and the Digital Fluid Temperature Sensor installed in a freezer.



2. If necessary to hold the sensor in place, mount it with a cable clip, Velcro or nylon tie.
3. Run the built-in 25' cable back to your Room Alert. Try to avoid running it near large electromagnetic devices or fluorescent lights, which produce EMI that can interfere with sensor readings.
4. Connect the sensor to a digital sensor port on your Room Alert.



Digital Temperature Sensor Features & Specifications

Environment Condition Monitored	Temperature
Digital Temperature Sensor (TMP-SDT-SEN)	Indoor ambient temperature
Digital Outdoor Temperature Sensor (TMP-DOT-SEN)	Outdoor ambient temperature
Digital Fluid Temperature Sensor (TMP-DFT-SEN)	Fluid temperature
Type Of Sensor	Digital
Power Supply	Powered by Room Alert
Sensor Cable Type	RJ-11 (standard straight-through telephone cord)
Included	Yes (built-in)
Length	25' (50' and 100' also available)
Maximum Extendible Length	100' total
Temperature Range	-67° F to 257° F (-55° C to 125° C)
Accuracy	+/- 2° C
Resolution	0.0625° C
Compatible Products	Any Room Alert or MAX Wired Sensor Adapter purchased after May 2020

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Configure Your Digital Temperature Sensor

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Use Room Alert's Built-In Web Interface

Navigate to **Settings** → **Sensors** in the web interface of your Room Alert. The options you see below will vary depending on the model.

Sensor Settings

Digital Sensor Settings

Internal Sensor Alarm Configuration
Sensor Type: Temperature Use Alarm Profile: Profile 1

Sensor Label	Alarm On	High	Low	Adjust
Internal Sensor	Temperature (°F)	<input type="checkbox"/> disabled	<input type="checkbox"/> disabled	0

Apply PoE (Power over Ethernet) Temperature Adjust
Converting the 48V PoE power to the 5V used by the Room Alert Monitor can generate excess heat within the device. Learn more: [How To Adjust For PoE Heat Difference](#)

Sensor 1 Alarm Configuration
Sensor Type: Temperature Use Alarm Profile: Profile 1

Sensor Label	Alarm On	High	Low	Adjust
Ext Sensor 1	Temperature (°F)	<input type="checkbox"/> disabled	<input type="checkbox"/> disabled	0

Sensor 2 Alarm Configuration
Sensor Type: Not Connected

Sensor 3 Alarm Configuration
Sensor Type: Not Connected

1. Scroll to your external digital sensor(s), the total number of which will vary depending on the Room Alert model.
2. Find the digital sensor interface that matches the port you connected your Digital Temperature Sensor to. For example, if you used the first digital port on your Room Alert, look for Sensor 1 Alarm Configuration; if you used the second, look for Sensor 2 Alarm Configuration, and so on. Notice that your Room Alert monitor automatically detects the type of digital sensor and displays it in Sensor Type.
3. In Sensor X Label, you may leave the default, "Ext Sensor X," or enter something more descriptive. Room Alert "E" models accept up to 15 characters, including only letters, numbers, spaces, hyphens (-), underscores (_) or periods (.). Room Alert "S" models accept up to 30 characters, including the above and special characters, like ampersand (&).
4. Alarm On automatically populates with the default temperature scale. Please refer to your Room Alert User's Guide & Reference Manual to change it.
5. In High and Low, you may enter values for high and low thresholds. Your Room Alert generates alerts based on those thresholds.
 - Room Alert "E" models: the default High & Low is 0—which means no alarm is configured.
 - Room Alert "S" models: the High & Low fields are disabled by default. You may enable each field individually by selecting its check box.

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6. In Adjust, you may leave the default, 0, or enter a value to adjust the temperature reading if it differs from a known value at that location. On Room Alert "S" models, you must enable the Adjust field by selecting its check box before entering a value.
7. In Use Alarm Profile, which controls light towers and relays on your Room Alert, you may leave the default, **Profile 1**, or choose another profile from the drop-down menu.
8. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.