



Nest Learning Thermostat (4th gen) Technical Specifications

June 2024

Spec Category	
Dimensions and Weight	<p>Thermostat display Diameter: 3.9 in (98 mm) Depth: 1.1 in (29 mm) Weight: 5.7 oz (161.8 g)</p> <p>Thermostat display + base Diameter: 3.9 in (98 mm) Depth: 1.2 in (30 mm) Weight: 6.9 oz (195 g)</p> <p>Trim plate Length: 6.6 in (168 mm) Width: 5.4 in (138 mm) Height: 0.2 in (5.5 mm) Weight: 2.3 oz (66.5 g)</p>
Colors	Polished Silver (Nest Pro Edition available) Polished Gold Polished Obsidian
Display	2.68 inch (68 mm) diameter circular liquid crystal display (600 x 600 pixels)
Sensors	Soli sensor for Motion Sense (learn more at g.co/nest/sensors) Temperature Humidity Ambient light
Power	<p>Voltage 20-30VAC</p> <p>Startup current 4VA</p> <p>Standby current 2VA</p> <p>Power source HVAC system wiring</p> <p>Battery Built-in rechargeable lithium battery</p>
Connectivity	Wi-Fi 802.11n (2.4 GHz / 5 GHz)

<p>HVAC System Compatibility</p>	<p>The Nest Learning Thermostat (4th gen) works with most 24V systems, including gas, electric, oil, forced air, heat pump, and radiant.</p> <p>It can control: Heating 1, 2, and 3 stages (W1, W2, W3); Cooling 1 and 2 stages (Y1, Y2); Heat pump with auxiliary and emergency heat (O/B, AUX, E); Fan (G, G2, G3); Power (C, RH, RC); Humidifier and dehumidifier (HUM, DEHUM); Ventilation (VENT). The Nest Learning Thermostat's * connector can accept one of these wires: W3, E, HUM, or DEHUM. The AQ+ and AQ- connectors can accept 1-wire or 2-wire VENT, HUM, or DEHUM.</p>
<p>Power Compatibility</p>	<p>Patented Power Sharing technology</p> <p>Nest thermostats have a patented Power Sharing technology, which means that unlike other smart thermostats, they can be installed without needing a C wire in the vast majority of homes.</p> <p>The Nest Learning Thermostat has a Power and System test that will let you know if more power is needed. If so, you can install a C wire or Nest Power Connector to ensure the thermostat always has enough power.</p> <p>A C wire or Nest Power Connector can always be installed for added certainty and reliability if you feel like there's a risk of power loss or accidental system activation.</p> <p>The types of systems that will require a C wire or Nest Power Connector can be found here.</p>
<p>Smart Home and Voice Assistant Compatibility</p>	<p>Works with Google Home and Matter</p> <p>Installation and setup require the Google Home app.</p> <p>Control the Nest Learning Thermostat with Google Home and other Matter-enabled apps and voice assistants.¹</p>
<p>Accessories</p>	<p>Trim plate to cover paint and drywall imperfections (included)</p> <p>Steel plate for installation on electrical box (included)</p> <p>Nest Temperature Sensor (2nd gen)</p>
<p>Warranty</p>	<p>5-year standard warranty for HVAC Pros</p>
<p>Sustainability</p>	<p>Battery contains 100% recycled cobalt²</p> <p>The Nest Learning Thermostat (4th gen) and Nest Temperature Sensor (2nd gen) bundle is made with at least 33% recycled materials.³</p> <p>Packaging uses 100% plastic-free materials⁴</p>

Certifications	ENERGY STAR® certified thermostat
Languages	English French Spanish
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Humidity	10% to 90%
Minimum and Maximum Temperature Ranges	<p>Max cooling temperature 90°F (32°C)</p> <p>Min heating temperature 50°F (9°C)</p> <p>Dual fuel break point 10°F to 50°F (-12°C to 10°C) but “Always” and “Never” are also options</p> <p>Aux lockout temperature 0°F to 70°F (-18°C to 21°C)</p>
Eco Temperature Range	<p>Eco Temperatures default range Heating: 56°F (13.5°C) Cooling: 82°F (28°C)</p> <p>Eco heating temperature range Minimum: 40°F (4.5°C) Maximum: 70°F (21°C)</p> <p>Eco cooling temperature range Minimum: 76°F (24.5°C) Maximum: 95°F (35°C)</p>

1 Check csa-iot.org/members for more information on Matter-certified smart home platforms. To control Matter-enabled Google devices with a 3rd party platform or app, you may need a device that works as a Matter hub from the 3rd party manufacturer.

2 Cobalt is 15% of the battery weight.

3 Based on product weight.

4 Based on retail packaging (excluding adhesive materials and required plastic stickers) as shipped by Google. To meet the request of some retail partners, stickers and/or security tags are applied to some packaging variations and may contain plastic.

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**To learn more about the Nest Learning Thermostat (4th gen),
or to set up a training session, please contact info@nestprorep.com**