Introducing the Daikin One+™ Smart Thermostat

The first smart thermostat to offer full two-way communications with Daikin HVAC systems
The Daikin One+™ Smart Thermostat is an intelligent home air controller from one of the world’s leading heating, ventilating, and air conditioning (HVAC) manufacturers. It is the cloud-connected hub of a sophisticated, integrated solution for controlling temperature, humidity, and air quality.

Like most premium smart thermostats, the Daikin One+ Smart Thermostat supports casual temperature adjustment, automatic settings changes driven by an easy-to-program schedule, and energy-saving “away” settings are kept well out of the way of casual users.

The home screen displays the current temperature, the current system mode, and icons leading to each of the top level screens.

That’s where most consumer smart thermostats stop. This professional smart thermostat goes further to include humidity controls (both adding moisture and removing it) and air quality monitoring.

Traditional consumer smart thermostats are limited in another important way, too. At heart, they are little more than automatic switches, relying on 24-volt wires to send on/off messages. They have no way of sending more sophisticated control messages. And most are unable to receive messages from HVAC equipment. In contrast, the Daikin One+ Smart Thermostat is designed specially to communicate with Daikin equipment, both sending and receiving messages using sophisticated communications protocols.

We explicitly designed the Daikin One+ Smart Thermostat for the different needs of three different audiences.

First, for new and casual users, turning the dial is a quick and simple way to adjust temperature settings. Users see the current temperature, turn the dial, and see the set-points. They can focus on the adjust screen. But just a tap away are other key features—scheduled set-point changes, energy-saving “away” set points, and air quality readings.

Second, homeowners concerned about maximizing efficiency or customizing the system can explore a full range of options under the settings menu. And finally, contractors, the folks installing the system, who have sophisticated technical needs, can go even deeper into operations, but their advanced settings are kept well out of the way of casual users.

Most users will stay in this carousel of five, top-level screens.

In addition to interacting directly with the thermostat, voice control is available via leading voice assistance platforms, including Amazon Alexa and Google Assistant. On top of that, users can opt for a friendly mobile application (running on both Android and iOS platforms).

Control is available through popular voice-activated speakers.

The air quality screen displays indoor air quality levels (when a Daikin One+ Home Air Monitor is connected), outdoor air quality, and weather (when connected to the internet).

An LED light pipe indicates when the system is heating or cooling.

With the mobile app, geo-fencing will automatically switch to energy savings.
The high-resolution color touch screen display is protected by the same toughened glass used in smart phones.

The anodized aluminum bezel and dial are precision manufactured. The surfaces have a fine bead blast with a warm hued anodized finish. The dial rotation is extraordinarily smooth because it rests on a bearing assembly typically found in precision instruments. A switch behind the dial enables users to return to the home screen from any menu with a single tap.

A thin LED light strip sits flush within the bottom surface and runs from edge to edge, delicately illuminating the wall beneath. Emitting a soft emotive glow, the light strip indicates the current system mode: red-orange for heating, blue for cooling.

A proximity sensor wakes the thermostat on approach to be ready for input.

An integrated WiFi radio connects via home router through the internet to the cloud and on to the homeowner mobile application. The Daikin cloud will also seamlessly integrate with open smart home architectures, including Amazon Alexa and Google Assistant, enabling consumers to effortlessly use features such as voice control.

Daikin’s cloud will also enable consumers to lower energy bills by participating in their utility’s peak load reduction programs. The thermostat supports the Open ADR 2.0 protocol, used by utilities to selectively reduce power demand.

**Dimensions**
- Length: 6 3/4 inches
- Height: 3 3/8 inches
- Depth: 1 3/16 inches
- Weight: 10.5 ounces

**Technical Specifications**
- Two CPUs:
  - ARM9 to control the thermostat
  - PIC24 to manage HVAC communications
- Analog dial
- Capacitive touch screen
- Backlit, 3.5 inch MVA TFT LCD display
- 640 × 480 pixels × 24 bit RGB (full color)
- Piezo speaker
- Light pipe indicates heating or cooling
- Proximity sensor activates UI on approach
- WiFi
- Bluetooth
- Daikin ClimateTalk Network
- Bi-directional communications protocol for controlling HVAC system
- Bubble level (to aid installation)