GLAS®

Introducing GLAS® by Johnson Controls.
The Clearly Smart Thermostat.

Johnson Controls invented the room thermostat 135 years ago. With your family's comfort and energy savings in mind, we reinvented it with GLAS. The smart thermostat keeps your home comfortable, saves energy, and its clean translucent interface reimagines any space.

Features
- 7 Day scheduling
- 3 Events available including: sleep, home, away
- Temperature setpoints per event
- Arrival anticipation: returns to a "home" state even if user isn't home yet, to ensure comfort when they return
- Pre-Start: pre-starts heating or cooling previous to end of sleep or away event to reach comfort set point at scheduled time
- Occupancy detection via integrated sensor to over ride schedule for comfort and energy savings
- Safety temperatures to protect building against excessive heat or cold
- Monitor and improve air quality through smart fan and ventilator control
- Scheduled vacations

Energy Reporting
- Daily 24-hour equipment run time in hours, as well as percentage estimated energy savings when compared to a standard thermostat when connected to Wi-Fi
- History up to 7 days of energy saved
- Equipment run-time reporting when not connected to Wi-Fi

Outdoor Weather Information when Connected to Wi-Fi, Including:
- Current Forecast
- Current Temperature
- Temperature high and low for the day
- Humidity
- Windspeed

Operating Notifications
- Change air filter reminder
  - **Manual:** Timing based default 6 months. Options of: 3 months, 6 months, 9 months, 12 months
  - **Auto:** Based on fan runtime and air quality
- Service reminder
  - Timing based default 6 months. Options of: 3 months, 6 months, 9 months, 12 months
- Poor indoor air quality reading
- Safety control activated
- Thermostat connection unavailable (only when connected to Wi-Fi)

GLAS®

Specs

Depth: 1.18 in. (30 mm)
Width: 5.6 in. (142 mm)
Height: 5 in. (127 mm)
Weight: 0.5 lbs. (0.226 kg)

Overall Dimensions

1.18 in. D x 5.51 in. W x 5 in. H
(30mm x 140mm x 127mm)
Base unit dimensions
5.51 in. W x 1.85 in. H
(140mm x 47mm)

Display

Transparent OLED 5.91", 16:9 aspect ratio, with integrated touch controller
Resolution: 480(H) X RGB X 272(V), 16M colors
Viewing: 90° +/- 30°

Optical characteristics (typical)

- **Luminance:** 600 cd/m2
- **Transmittance:** 40%

Sensors

- Temperature, with ability to configure offset
- tVOC & eCO2 Air Quality sensors
  - Indoor real-time air quality reporting including:
    - Total volatile organic compounds (tVOC)
    - Equivalent carbon dioxide (eCO2)
  - Outdoor real-time air quality reporting including:
    - Allergens, including tree pollen, grass pollen and ragweed pollen
    - Ultra violet (UV) index
    - Air pollution index (API), including carbon monoxide, sulfur dioxide, nitrogen dioxide and ozone

- **Proximity (near-field):** 3 ft. detection
- **Occupancy (far-field):** 15 ft. detection
- **Microphone:** Dual array
- **Speaker:** Audio feedback

Wireless

Wi-Fi: 2.4 GHz, compatible with 802.11b/g/n networks
Bluetooth: Bluetooth 4.1, BLE

Mobile Support

- Android (4.4 or later) and iOS (10 or later) mobile and tablets
- Automatic, OTA software updates for thermostat device and mobile apps
- Can work with up to 10 thermostats per location
- Can create up to 10 locations per user account

Voice Assistants

Connect your GLAS smart thermostat to a supported voice assistant. Be sure to enable the GLAS by Johnson Controls skill.
- Works with Amazon Alexa
- Works with Google Assistant

Operating System:
- Windows 10 IoT core

Language:
- English

In the Box

- GLAS smart thermostat
- Front cover
- 6.9" x 7.4" backplate
- 4 screws
- 4 drywall anchors
- 4 to 5 wire adapter

Compatibility

GLAS can control the following types of split or packaged units:
- Conventional, single stage up to 2H/2C
- Heat pump, up to 2H/2C/2 Aux Heat

GLAS is compatible with the following HVAC configurations:
- Gas Heat
- Oil Heat
- Electric Heat
- Ground-, Air-, and Water-source heat pumps
- Dual-fuel support for Heat Pump