

SmartSuite HVAC Control

Product Overview

The Kontrol Energy SmartSuite AI Control technology is a smart, connected, artificially intelligent HVAC (Heating, Ventilation, Air Conditioning) device that is easily retrofitted in all types of buildings and HVAC systems. The technology is designed to be interactive for tenants, visible and adjustable on the cloud by owners, and does not require any new wiring, existing building wireless networks or ongoing operational involvement or costs to operate. Its main purpose is to increase energy efficiency and decrease utility costs (total operating cost), while providing remote access to in-suite temperature settings, temperature adjustment requests and alarm response. The system monitors ambient air temperature, humidity, air pressure, occupancy and open windows and doors and makes energy saving decisions autonomously based on these parameters along with time of day / year.

Types of HVAC that SmartSuite can control:

- Resistive baseboard heating
- Unit ventilators (w/ or w/o damper)
- Fan Coil Units (two / four pipe)
- Roof top units
- Valves on hydronic perimeter heating systems
- Heat pump
- Packaged Terminal Air Conditioner
- Electric radiant (floor or ceiling)

SmartSuite AI Controller - SSHC



SmartSuite Power Unit – SSPU



Product Specification / Caution Labels



Model No. SSU120410
SSU120411

Contains FCC ID: MCQ-PS2CSM
Contains IC: 1846A-PS2CSM
Contains FCC ID: QOQBGM13P
Contains IC: 5123A-BGM13P



Input: 120-240 VAC
50/60 HZ
33 mA @ 120V AC
23 mA @ 208V AC
21 mA @ 240V AC
or 24V, 50/60Hz 25mA
Relay Output: 24V AC, 1A Max

CAUTION
Risk of Electrical Shock;
More Than One Disconnect
May Be Required To De-energize
the Equipment Before Servicing.

Use Copper Conductors ONLY

AMISE EN GARDE
Risque de choc électrique;
Plus d'une déconnexion peut
être Nécessaire pour mettre
le système hors tension
Équipement avant entretien.

Utiliser des conducteurs
de cuivre UNIQUEMENT



Model No. SSU120412

Input: 120-240 VAC
50/60 HZ
75mA @ 120V AC
37.5mA @ 240V AC

Relay Output: 30A, 120/240V AC

Contains FCC ID: QOQBGM13P
Contains IC: 5123A-BGM13P



CAUTION
Risk of Electrical Shock; More
Than One Disconnect May Be
Required To De-energize the
Equipment Before Servicing.
Use Copper Conductors ONLY
Field wiring at output terminals,
use 10AWG or larger wires rated
for at least 75° C (167° F)

AMISE EN GARDE
Risque de choc électrique; Plus
d'une déconnexion peut être
nécessaire pour mettre le système
hors tension équipement avant
entretien.
Utiliser des conducteurs de
cuivre UNIQUEMENT
Câblage sur site aux bornes de
sortie, utilisez 10AWG ou fils
plus gros prévus pour au moins
75 ° C (167 ° F)

Product Nomenclature / Descriptions

Name	Acronym	Model Number	Description
SmartSuite Heuristic Controller - Residential	SSHC-RES	SSU120410	Energy Saving Configurable Autonomous Thermostatic Control Device with wireless, cloud connectivity and algorithms designed for residential applications
SmartSuite Heuristic Controller - Commercial	SSHC-COM	SSU120411	Energy Saving Configurable Autonomous Thermostatic Control Device with wireless, cloud connectivity and algorithms designed for commercial applications
SmartSuite Power Interface Unit	SSPU	SSU120412	Semi-autonomous Bluetooth connected power interface control device
SmartSuite Window and Door Sensors	SSWD	SSWD120412	BLE enabled sensors used for detecting open / close window and door activity via connection to the SmartSuite Heuristic Controller
SmartSuite Cloud Gateway	SSCG	SSU120413	Cloud / Self-Healing MESH Network Gateway with two-way communication and OTA System Update capability

System Architecture

