Verasys Smart Building Hub (SBH300) Catalog Page

2023-08-24 LIT-1901218 Release 5.0

Introduction

Figure 1: Smart Building Hub



The Smart Building Hub provides an intuitive, browser-based UI over a Wi-Fi wireless connection optimized for mobile use. You can also remotely access the SBH user interface through the device's Airwall when the SBH is connected to the Internet through the Ethernet or Wi-Fi client interface.

The SBH UI scales to the device you use. The main menus and screens are side-by-side on a computer screen or tablet. On a phone display, you see either the menu or the screens you select from that menu, for example, the TEC3000 home screen. When you view the UI on a phone or smaller tablet, drag the screen from the left or right to display the required menu or screens.

The Smart Building Hub Gateway and Verasys system are secured by a Tempered Airwall that provides zero-trust, encrypted cybersecurity from device-to-cloud.

The Smart Building Hub works with all controllers that have the Johnson Controls Smart Equipment technology. Refer to the *Verasys System Product Bulletin (LIT-12012342)* for products that interface with the Smart Building Hub.

Repair information

If the Smart Building Hub fails to operate within its specifications, replace the unit. For a replacement unit, contact the nearest Johnson Controls representative.

Ordering information

Table 1: Smart Building Hub

Product code number	Description
LC-SBH300-0	Verasys Smart Building Hub with power supply and Wi-Fi adapter
LC-SBH300-0C	Verasys Smart Building Hub with ICG-150 cell modem, Wi-Fi adapter and power supply
LC-SBH300-LA	Smart Building Hub - Latin America
LC-SBHPNL-01	Verasys Smart Building Hub within NEMA 1 Enclosure
LC-SBHPNL-01C	Verasys Smart Building Hub within NEMA 1 Enclosure with ICG-150 Cell Modem

Table 2: SBH300 Accessories

Product code	Description	
ACC-PWRKIT-1A24	Verasys LC-SBH300-0 power supply for North America	LC-SBH300-0 LC-SBH300-0C
ACC-PWRKIT-1E24	24 VDC, Class II power supply, European plug	
ACC-WFUSB-LM808	Verasys LC-SBH300-0 USB Wi-Fi adapter for North America and Europe	LC-SBH300-0 LC-SBH300-0C

Table 3: Compatible USB Wi-Fi adapters for SBH

Manufacturer	Model Name
D-LINK®	DWA-131 E
D-LINK	DWA-171 A
D-LINK	DWA-171 C
NETGEAR®	A6100
TP-LINK®	Archer
PREMIERTEK®	PT-8811AU
LM TECHNOLOGIES®	LM808

Technical specifications

Table 4: SBH Panel technical specifications

Specification	Description
Product code number	LC-SBHPNL-01
Dimensions	24 in. x 20 in. x 9.25 in. (610 mm x 508 mm x 235 mm)
Enclosure rating	NEMA 1
Finish	ANSI 61 gray polyester powder coating
Material	Mild steel enclosure, sub-panel and door
Ambient conditions	32°F to 122°F (0°C to 50°C); 10% to 90% RH, 86°F (30°C) maximum dew point
Ambient storage	-40°F to 158°F (-40°C to 70°C); 5% to 95% RH, 86°F (30°C) maximum dew point
Electrical rating	120 VAC 1.1 A 50/60hz
Power requirements	69.2 watts

Johnson Controls

Table 4: SBH Panel technical specifications

Specification	Description
Weight	55.1 lb (25 kg)
Compliance	United States: Enclosure UL 50 Rated, cUL-CAN/CSA C22.2 No. 14-05, FCC Compliant to CFR47, Part 15, Subpart B, Class A ⓘ **Note:** For additional NEMA ratings, enclosure materials, and customizations, contact the Custom Panel Group at: http://BE-CustomPanelGroup@jci.com.

Table 5: Technical specifications

Specification	Description
Product code numbers	**LC-SBH300-0**, Smart Building Hub (SBH300)
Power requirement	Dedicated nominal 24 VAC power transformer or a portable power adapter that supplies 24 VDC. In North America, use a Class 2, 24 VAC power supply with a 50 VA minimum output. Outside North America, use a 24 VAC SELV transformer at the appropriate rating. The minimum input voltage for the SBH300 to operate properly is 20 VAC: **ACC-PWRKIT-1A24**; Europe Plug Type: **ACC-PWRKIT-1E24**
Power consumption	38 W maximum
Ambient temperature conditions	Operating: -30°C to 70°C (-22°F to 158°F) Operating survival: -30°C to 70°C (-22°F to 158°F) Non-operating: -40°C to 70°C (-40°F to 158°F)
Ambient humidity conditions	Storage: 5% RH to 95% RH, 30°C (86°F) maximum dew point conditions Operating: 10% RH to 90% RH, 30°C (86°F) maximum dew point conditions
Transmission speeds	Ethernet communication: 10 Mbps, 100 Mbps, 1Gbps
Transmission power Wi-Fi access point dongle, maximum	100 mW
Transmission range Wi-Fi access point dongle	Wi-Fi communication: 30 m (100 ft) line-of-sight indoors
Serial interfaces	One System Bus port: One 6-pin RJ-12 jack and one 4-pin screw terminal Three USB ports: One Micro-B port and two USB A ports. All support USB 2.0 and Open Host Controller Interface [Open HCI] specification.

Johnson Controls

Table 5: Technical specifications

Specification	Description
Dimensions (H x W x D)	190 mm x 125 mm x 44.5 mm (7.48 in. x 4.92 in. x 1.75 in.)
Weight	0.853 lb (0.387 kg)
Housing	Black polycarbonate and acrylonitrile butadiene styrene (ABS) blend.
Web browser requirements for computers and handheld devices	Computer: Microsoft® Edge® version 91 or later. Google® Chrome™ version 91 or later. Mozilla® Firefox® version 71 or later. Apple™ Safari® version 14 or later. Handheld device: Microsoft Edge version 91 or later. Google Chrome version 91 or later. Mozilla Firefox version 90. Apple Safari version 14 or later.
Compliance	United States: UL Listed File E107041, CCN PAZX, UL 916, Energy Management Equipment, FCC Compliant to CFR47, Part 15, Subpart B, Class B.
	Canada: UL listed file E107041, CCN PAZX7, CAN/CSA C22.2 No.205, Signal Equipment; Industry Canada Compliant.
CE	**Europe:** CE Mark – Johnson Controls, Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive.
	Australia and New Zealand: RCM Mark, Australia/NZ

North American emissions compliance

United States

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the users will be required to correct the interference at their own expense.

Warning (Part 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada

This Class (A) digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe (A) respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Industry Canada Statement(s)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Patents

Patents: https://jcipat.com

Single point of contact

APAC	EU	UK	NA/SA
JOHNSON CONTROLS C/O CONTROLS PRODUCT MANAGEMENT NO. 32 CHANGJIANG RD NEW DISTRICT WUXI JIANGSU PROVINCE 214028 CHINA	JOHNSON CONTROLS VOLTAWEG 20 6101 XK ECHT THE NETHERLANDS	JOHNSON CONTROLS TYCO PARK GRIMSHAW LANE MANCHESTER M40 2WL UNITED KINGDOM	JOHNSON CONTROLS 5757 N GREEN BAY AVE. GLENDALE, WI 53209 USA

Contact information

Contact your local Johnson Controls representative:
www.johnsoncontrols.com/locations

Contact Johnson Controls:
www.johnsoncontrols.com/contact-us

© 2023 Johnson Controls. All rights reserved. All specifications and other information shown were current as of document revision and are subject to change without notice.

www.johnsoncontrols.com

Johnson Controls