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Disclosure:

The following drawings & parts quote is our best interpretation of the parts needed based on the information given for this specific project. It is your (the contractor's) responsibility to verify that the parts quoted meet the requirements (ex. quantities needed, parts required) and specifications of the project being quoted. If additional or different parts are needed in order to complete the project or meet the specification; please reach out to the distributor listed on your quote to address the issues before using this quote to bid to your customer. ADDITIONAL OR DIFFERENT PARTS MAY RESULT IN A PRICE DIFFERENCE.



Support:

Contractor Phone # Distributor Phone # Verasys Tech Support (866) 663-6105 be-verasyssupport@jci.com

Warranty: 3 Year Limited Warranty

https://www.johnsoncontrols.com/-/media/jci/be/united-states/legal/warranty/files/jci-3y-warranty-final-11202018.pdf?la=en&hash=DD21C45A73770C636ED6088662E78EB0ACD02FC9

Cover	REFERENCE Sales Engineer	DRAWING Project Manager	NO. Application	Engineer	REVISION-LOCATION DRAWN BY Stevel DATE 40.00.0000	ECN	DATE APP ROVED	BY
Project Title 3rd Party RTU-TEC	M VE		SY	S ™	Starch Wishington		JMBER 1	

Verasvs Bill of Materials						
System	Function	JCI Part No 💌	Description			
Network	Smart Building Hub	LC-SBH200-0S	Verasys Smart Building Hub			
Network	Communication Wire	CBL-22/3-FC-PLN	System/Zone Bus Cable 22-3C Shiel			
SZ - Smart Equipment	NS Sensor	NSB8BTN140-0	TEMP, DISPLAY, SETPOINT, WHITE,			

Feature	System features Smart Equipment Single Zone Units can cover
Up to 2 Stage Cooling	Yes
Up to 4 Stage Cooling	Yes
Modulated Cooling	No
Up to 2 Stage Heating	Yes
Up to 3 Stage Heating	Yes
Modulated Heating	Yes
Heat Pump	Yes
Economizer	Yes
Title 24 Economizer	Yes
Demand Ventilation Control	Yes
Dehumidification	Yes
Humidification	No
Fixed Variable Fan	Yes

Drawing Title
Bill Of Materials
Project Title
3rd Party RTU-TEC

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	1
lded Plenum Wire	1
NO LOGO	10

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TEC Terminations



2 STAGES STAGES DX C C SA-T (Optional) C C	Rooftop or Packaged Unit Enclosure DA
I WILL RUN ANY TIME THERE IS A CALL FOR HEATING OR CCUPIED STATES.	COOLING
AIN THE ZONE TEMPERATURE SETPOINT AS SENSED BY T	THE ZONE
ONTROLLED VIA ON BOARD SCHEDULE.	
) IN SEQUENCE TO MAINTAIN THE TEMPERATURE SETPO	INT.
IN SEQUENCE TO MAINTAIN THE TEMPERATURE SETPOIN	NT.
R THAN THE ECONOMIZER SETPOINT, THE ECONOMIZER ORKING IN SEQUENCE WITH THE COOLING COIL. OUTSID INECTED. SUPPLY AIR TEMPERATURE (SA-T) IS FOR MON	WILL ACT AS E AIR ITORING
THE FMS:	
RE (SA-T) – IF THE THERMOSTAT CALLS FOR HEATING OR ISOR DOES NOT CHANGE WITHIN AN ADJUSTABLE PERIO GENERATED BY THERMOSTAT. IF THIS TIME SETTING IS).	COOLING D OF TIME, SET TO 0 THE
THE RUN HOURS THAT THE FAN IS COMMANDED. WHEN T AN ALARM WILL BE GENERATED SO MAINTENANCE CAN T (IE CHANGE THE FILTERS, ROUTINE CHECKS). IF THE LI GABLED.	THE UNIT NBE IMIT IS SET TO
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Damper Wiring Detail



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24vac

Smart Building Hub Information

LED Name	Color	Normal	Descriptions/Other Conditions	3MAY PAULENG May		
Power	Blue or Purple	On steady	Off = No power On Purple = Power is supplied by primary voltage On Blue = OS booted and power is supplied by primary voltage	10:1		
Fault	Red	Off	Off = No faults/normal operation On steady = Missing hardware, missing software, operating system has not yet been initialized, or reset is in progress Slow flicker then fast flicker = Reset button is being pressed Medium flicker (2 blinks per second) = Startup sequence Fast flicker (5 blinks per second) = Fault	SSID: Verasys-SBH Username: Passphrase: Password: Place Label here Place L	Admin abel here	Part No. 24-10737-00229, Rev. Issued March 20
Ethernet	Blue	Flicker with activity	Off = Receiving data On steady = Transmitting data Flicker = Data transmission	E 00 - 10 - 80 - 84 - 78 - C5 Bevice 10 Service 10 Service 10	F805 FC Z	mart Building Hub Quick Start Guide SBH200
100/1G Link	Blue	On steady	Off = no network connection On steady = network is connected	Fil	10,766 RY11320	
Run	Blue	On steady	Off = No power or waiting for processes to start On steady = OS and all monitored processes have started and the device is ready to use	24-10737-00229, Rev A		SYSTERBOS ROL URB URBA ETHENNET
Upgrade	Blue	On steady	Off = No upgrade in progress On steady = upgrade in progress			191-71 CLIRHT 🔹 🔹 KOL
USB A	Blue	On when a device is connected	Off = No device is connected On steady = a device is connected			WATAR SYSTEMBUS USB R O USB R UPDRAGE O RUN Novia Lunk O CTHERNET
USB B	Blue	On when a device is connected	Off = No device is connected			FAUX: FOREX SMART BUILDING HUB
System Bus	Blue	Flicker with activity	Off = Not receiving data Off = Transmitting data Flicker = Data transmission		SB A ETHERAET	0000 0000
Wi-Fi AP	Yellow	Flicker with activity	Off = No Wi-Fi adapter connected On steady = A device is connected to the Wi-Fi Network of the SBH Flicker = Wifi adapter is connected but no devices are connected		SSID	
EOL	Yellow	On if the device is the end of the line Off if it is in the middle of the bus	Off = EOL not switched on On steady = EOL is switched on		WLFI CLIENT	phrase: Password:
W-Fi Client	Yellow	Not Used	Not Used - This will be used at a future date	EVEDACYC.		Place Label here Place Label here
Reset Funct	ion	Reset Operation ¹		MA VELIADID	100/1G LINK • • ETHERNET	. Note cabel here
Reset the W Ethernet Set	I-Fi and ttings	 Press and hole behavior. 	d the RESET button for two seconds. The FAULT LED displays slow flicker		(1117 • erador	SBH-0AFBC5 SBH-0AFBC5
	ſ	2. Release the R behavior.	ESET button within three seconds. The FAULT LED continues slow flicker	SMART BUILDING HUB	L	
		3. Within five sec confirm that yo button to confi	conds, press the RESET button again, and then immediately release it to bu want to reset Wi-Fi and Ethernet settings. If you do not press the reset irm within five seconds, the reset operation is canceled.			
		Result: You have n defaults. The LEDs based on the curre	reset the Wi-Fi SSID and passphrase and Ethernet settings to factory s stop flickering for two seconds, then the LEDs return to normal operation, int state of the device.			8 - 190
Reset to Fac	tory Defau	1. Press and holidisplays slow four seconds of the press	d the RESET button for six seconds. After two seconds, the FAULT LED flicker behavior. This changes to fast flicker behavior after an additional of holding the RESET button.			ani 200
		FAULT LED C	in the seconds of seeing last licker behavior. The ontinues fast flicker behavior.			ALCONCE.
		 Within five sec confirm that yo to confirm with 	conds, press the RESET button again, and then immediately release it to bu want to reset to factory defaults. If you do not press the RESET button in five seconds, the reset operation is canceled.			
		seconds, then the	LEDs return to normal operation, based on the current state of the device.			
1 Ex	very SBH	comes with a Quick	Start Guide that gives you the login information			
2 Tł	ne first tim	ne you login into the S	SBH it will prompt you to change the default login <mark>(SAVE T</mark>	IS NEW LOGIN INFO)		
3 If	/ou forge	t or lose the login info	ormation follow the info above	SBH		
4 If y	you don't	have the Quick Start	Guide & need the default login use the following:	XXX(last 6 digits of your mac address on the back of the SBH-no dashes)		Drawing Title Smart Building Hub Detail
5 Th	ne wi-fi do	ongle can be used in	either USB port	AAA (last 6 digits of your mac address on the back of the SBH-no dashes)		
6 Th	ne SBH ca	an be powered by a 2	24vdc, 50w, Class II power supply or you can use a 24vac ,	75va Class II transformer		Project Title 3rd Party RTU-TEC
7 Th	ne SBH ca	an be mounted on de	enrail or screwed down using the standoffs		J	



6

1. Connect the Smart Building Hub to Equipment

The Smart Building Hub (SBH) permanently connects to the VerasysTM system using the 4-terminal System bus port. Wire the system bus communications to the blue, 4-terminal connector and plug it into the port.

Note: If this device is at the end of a line, set the end of the line switch to on.

Note: The RJ-12 jack next to the 4-terminal block can be used as a temporary connection to the System bus using the RJ-12 cable supplied with the SBH.



- a. Wire your cable to the supplied four-pin adapter as illustrated.
- b. Plug the Wi-Fi adapter that comes with the SBH into either of the USB ports.
- c. Connect the RJ45 Ethernet port to the building Ethernet network as instructed by the building IT department. The Ethernet must be plugged into the device if you choose the (optional) Ethernet setup in step 6.
- d. Connect power to the Smart Building Hub. Once power is supplied to the SBH, the WiFi AP LED flashes to indicate that the device is initializing. When the Fault LED turns off, the WiFi AP LED flashes, and the RUN LED is on, you can connect the SBH using the builtin Wifi access point.

Figure 2: SBH LED Map WI-FI CLIENT 🕘 🕚 EOL WI-FIAP . SYSTEM BUS USB B 🕘 🕚 USB A UPGRADE 🕘 💮 RUN 100/1G LINK 🕘 🕚 ETHERNET FAULT O POWER RESET . REDOOT

2. Connect to the Smart Building Hub Wi-Fi access point The SBH can be configured over Wi-Fi using a mobile device or laptop.

- a. In your Wi-Fi enabled device, access the Wi-Fi settings and select the Verasys-SBH access point name.
- b. Connect to the SBH Wi-Fi network using the supplied credentials from the beginning of this guide.

3. Open a Web Browser

a. Navigate to the following URL: www.smartbuildinghub.com, to open the SBH browser interface.

Note: The SBH ships with a private smartbuildinghub.com SSL certificate installed to ensure secure communication with the SBH. However, this certificate does not indicate that it is trusted in a browser. If you wish to install your own certificate, refer to the Smart Building Hub Network and IT Guidance Technical Bulletin (LIT-12012324) for more information.

4. Log in to the Smart Building Hub

- a. Use the default Admin login credentials from the beginning of this guide.
- b. Read and accept the SBH license agreement.

5. Change Passwords and SSID

The first time you log into the SBH, the Change Password and Passphrase web page appears. You must change the Admin password, Wi-Fi passphrase, and the SSID.

IMPORTANT: After you change the Wi-Fi passphrase or SSID, the web server restarts and you must rejoin the SBH Wi-Fi network using the new passphrase. On some mobile devices, you must select and forget the original SBH Wi-Fi network before rejoining the network with the new passphrase. A laptop running Microsoft Windows is a device that behaves this way.

- a. In the New Admin Password field, enter a new password.
- b. In the Verify New Admin Password field, enter the same
- new password. c. In the New Wi-Fi SSID field, enter the new Wi-Fi SSID.
- d. In the New Wi-Fi Passphrase field, enter the new Wi-Fi Passphrase.
- e. Click the Save button.

Navigate to the following URL: www.smartbuildinghub.com, to open the SBH browser interface.

Note: The SBH ships with a private smartbuildinghub.com SSL

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Power Consumption	38W maximum
Ambient Temperature Conditions	Operating: 0 to 50°C (32 to Operating Survival: -30 to 6 Non-Operating: -40 to 70°C
Ambient Humidity Conditions	Storage: 5 to 95% RH 30°C point conditions Operating: 10-90% RH, 30° dew point conditions

rtificate installed to ensure secure communication with the BH. However, this certificate does not indicate that it is trusted a browser. If you wish to install your own certificate, refer to a Smart Building Hub Network and IT Guidance Technical Bul- in (LIT-12012324) for more information. wigate to the following URL: www.smartbuildinghub.com, to en the SBH browser interface.										
rtificate installed to ensure secure communication with the 3H. However, this certificate does not indicate that it is trusted a browser. If you wish to install your own certificate, refer to e Smart Building Hub Network and IT Guidance Technical illetin (LIT-12012324) for more information.										
Ethernet Se his step describe	etup (Optional) es how to access the SBI	H over an Eth	hernet							
a. In the SBH b. On the Ethe SBH Ethern	UI, navigate to Settings : ernet drop-down list, sele net port.	Ethernet. ect On to ena	able the							
c. Click the Sa	ive button.									
 d. Take note o default, the address from Note: If the screen. 	f the address in the IP A SBH is configured to dyn m your network using DH IP Address does not app	ddress field. amically rece ICP. bear, refresh	By eive an IP the							
e. Enter the IP access to th Refer to the Technical B	e. Enter the IP address from the previous step. You now have access to the SBH over an Ethernet network. Refer to the Smart Building Hub Network and IT Guidance Technical Builtetin (117,12012324) for more options									
Use the Sn elect a device fro om the SBH to v eeded.	nart Building Hub om the equipment list and iew, commission, and co	d use the we nfigure devic	b pages es as							
MPORTANT: S ame and passw beeded to reset	ave this guide. It contains /ord information. This info your Smart Building Hub	s your default rmation may to factory de	t user be efaults.							
echnical Specif mart Building Hu	ications Ib									
ower Consumption	38W maximum									
Ambient Temperature Conditions	Operating: 0 to 50°C (32 to 122°F) Operating Survival: -30 to 60°C (-22 to 140°F) Non-Operating: -40 to 70°C (-40 to 158°F)									
Ambient Iumidity Conditions	Storage: 5 to 95% RH 30° point conditions Operating: 10-90% RH, 30 dew point conditions	C (86°F) maxir D°C (86°F) max	mum dew ximum							
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3rd Party RT	J-TEC		ERA	SY	S [™]			DRAWING N	UMBER 7	

Choose a device 🔻	SETTINGS ETHERNET			Static IP Address:				
≮ Menu	Ethernet		S. P.	Subnet Mask:				
1 Settings	3 On		p or	Default Gateway:				
Wi-Fi Access Point	SBH00108D0A7F56		Grou	Primary DNS Server	r:			
Backup	Domain Name Suffix		er I.T. fo Her	Secondary DNS Ser	ver:			
			e In	Email Host:				
Restore	Ethernet Mac Address		Cus Writ	Email Port:				
Profiles	00:10:8d:0a:7f:56		From	Mail Server User Na	ime:			
Clone	Auto DHCP		lufo	Mail Server Passwo	rd:			
2 Ethernet	IP Address	Sotting up Internet Access:	t This	VPN Address:				
Load Shedding	5 Get From I.T. Group	-Reach out to the customers I.T. group & get the	e	VPN User:				
Global Shutdown	Subnet Mask 6 Get From I.T. Group	following a "Static IP Address", "Subnet Mask", "Default Gateway", & "Primary & a Secondary DNS Server"		VPN Password:				
System Settings	Default Gateway	-Log into the SBH, click on "Settings" then "Ethernet" & change "Auto DHCP" to "Off"	_ 0	L			J	
	7 Get From I.T. Group	-Add the info you got from the IT group into the	SBH					
Verasys Enterprise	Auto DNS	SBH & make sure there's a network cable plugged into the SBH & the customers internet.	the	SSID:				
BACnet Settings	Off	-Turn off your wifi. Open Chrome or Safari & type in the ip address. This should bring you to the Verasys login page, if not you may need to log into	set up login	Wi-Fi Password:				
BBMD	Primary DNS Server	the customers VPN. (Call customer I.T. people up for VPN access) & repeat Step 4.	you s down	User Name:	ser Name:			
SSL	Secondary DNS Server	L/	After write	User Password:				
Alarm Notifications	9 8.8.4.4						 	
	Enable Proxy			wing Title			II	
Software Updates	No		SB	BH Internet Info				
Administration	Note: Smart Building Hub must be connected to an external power source for Ethernet to function.				REFERENCE DRAWING Sales Engineer Project Manager A	NO. REVISION-LOCATION Application Engineer By Steve DATE 7-6-2022	ECN DATE BY APPROVED BY DATE	
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Smart Building Alerts & Email Settings



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Definitions: Actuator-A controlled piece of hardware that rotates to open & close valves or dampers **AHU**-Air Handling Unit. Typically heat supplied by a boiler & cool water supplied by a chiller **BACnet IP**-BACnet communication over the internet **BACnet MS\TP**-Master-Slave/Token Passing. 3 wire communication bus BACnet-A data communication protocol for building automation & control networks **BAS**-Building Automation System. BBMD-BACnet/IP Broadcast Management Device. Not used unless your using BACnet/IP BYP200-Bypass Damper Controller used for COBP. **CO2**-Carbon Dioxide. Our bodies breathe in Oxygen & breath out CO2. **COBP**-Change Over Bypass may also be called VVT. A type of zoning for your building using a bypass damper & zone dampers. Each zone gets a vote & the VZC determines the order of attention for each zone. **DHCP**-When a router or gateway assigns an address to each device plugged into it (Can change with power cycle) Differential Pressure-The difference in pressure between 2 given points. (like a VAV box or a filter) **DNS**-Domain Name System. Similar to a phone book for the internet. **DVC or DCV**-Demand Ventilation Control. A method to add fresh air in a room using CO2 sensors. **ECM**-Electronically Commutated Controller. A DC powered motor that can vary the speed & torque. Ethernet-A system for connecting a number of computers or controllers to form a local area network. FC-BACnet ms\tp bus. Verasys can have up to 100 devices on this bus or 10 VZCs. **Gateway**-The network hardware that routes information in your building. **ISP**-Internet Service Provider. (Comcast, Century Link, Cox,....) LAN-Local Area Network. A collection of devices connected together in one physical location, such as a building, office, or home. **MA**-Mixed Air. Where outside air & return air from the building mix. **OA**-Outside Air. Fresh air from outside the building. **RA**-Return Air. Air from the building coming back into the duct work to be reused or cycled outside. **RTU**-Rooftop Unit. A packaged unit that contains heating & cooling. **SA**-Sensor Bus. Verasys can have 8 devices on this bus. It has to have 4 wires. 2 for power & 2 for data. SA-Supply Air. May also be referred to as Discharge Air. This is the conditioned air from the RTU or AHU going into the space **SBH**-Smart Building Hub. The internet hub for Verasys. **SMART**-A software layer on many JCl products that allows them to be a plug & play device with Verasys. SSE-Simplicity Smart Equipment. Many York RTU\AHU\Chillers, Coleman, Lux Air, Tempmaster, Quantech Chillers have the SSE card installed. This makes them a SMART plug & play device with Verasys. **SSL**-Secure Sockets Layer. A computing protocol that ensures the security of data sent via the internet by using encryption. Static I.P. Address- Similar to a phone number but on the internet. (Fixed) Used to access the SBH. Subnet-A method used to separate a network in a building. BAS should be on it's own Subnet. TEC-BACnet Stat for 3rd Party RTU, Heat Pumps, Unit Heaters, & Splits. Has a built in economizer. Can't control VFDs. **TLS**-Transport Layer Security. A security protocol designed to facilitate privacy and data security for communications over the Internet. **VAC-**RTU Controller for 3rd Party Units. Can also be used for IOM, Lighting, Boiler, Chiller, & Sideloop applications. **VAV**-Variable Air Volume. A type of zoning for your building using VAV boxes & a VFD. RTU is usually cooling only. **VEC**-RTU Controller for Zoning. There are multiple apps you can install on the VEC. (Heat Pump, Mod Heat Mod Cool, Mod Heat Stage Cool, Stage Heat Mod Cool, Stage Heat Stage Cool) **VFD**-Variable Frequency Drive. Hardware that allows you to vary the speed of a fan or pump. Great for saving energy! **VPN**-Virtual Private Network. A layer of internet security end user typically use requiring you to have a login to access their network. VZC-Verasys Zone Coordinator. Verasys can have up to 10 VZCs on the FC System bus. ZA-Zone Bus. Verasys can have up 33 controllers on this bus. 32 zones & 1 controller for RTU. **ZEC310**-Damper Controller used for COBP. ZEC510-VAV Box Controller. Can be used as stand alone zone control.

The Gotchas:

#1-Identify what kind of system this is? SMART, 3rd Party, CV, VAV, VVT, Boiler, Chiller, Lighting, Power Monitoring? This will determine what parts & apps you need. #2-Is the RTU or AHU motor an ECM? (variable speed motor...no need for a VFD) #3-Is the fan motor single phase? (VFDs typically don't work on single phase) #4-Does the OA Damper have an existing actuator & if so can you re-use it? #5-Does the existing actuator even work? #6-How does the actuator mount & will we need mounting hardware to mount a new actuator? #7-How are you going to run the BACnet wire & how much do you need? #8-Where will everything mount in RTU or AHU? #9-Do the RTUs already have DCV & VFD's? #10-Where am I going to mount the SBH & can I get internet access? #11-Have you read the spec & have you reviewed the notes in the drawings? #12-Can the RTU or AHU be used for VAV? Does it have a VFD or differential pressure? #13-Is there already a BACnet Com card on the SSE board? #14-Does the SSE board have 8mb of memory? If not it will lock up the board if you load the Verasys firmware on it. #15-Current firmware is loaded at the factory. However we don't know how long a part will sit before installation. On every job update all hardware to current firmware versions. Suggestion: When bidding a job get pictures of the RTU TAG, nameplate on the fan motor, the inside of the RTU where equipment will mount, OA damper & how it mounts. If the RTU has an SSE card then take a detailed picture of the board & barcode on it to determine if it will work with Verasys. This is also a good time to meet with the I.T. group to see if you can be on their network. If they say "yes" then ask for: Static IP Address, Subnet Mask, Default Gateway, & Primary & a Secondary DNS Server. If they say "no" talk to the end user about getting internet from a local ISP. There's even a cellular option we could recommend for Vearsys.

Helpful Links:

http://www.verasyscontrols.com/resources/training-and-education http://www.verasyscontrols.com/resources/technical-literature-and-documentation#installation

Drawing Title Appendix								
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