

IP to Relay Command Converter for Velocity Control System



AT-VCC-RELAY Atlona Manuals Command Converter Velocity Accessory



Version Information

Version	Release Date	Notes
1	11/19	Initial release



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The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.

The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

- 1 Read, follow, and keep these instructions.
- 2 Heed all warnings.
- 3 Do not use this product near water. Keep away from wet places, such as: spas, pools, sinks, laundries, wet basements, etc.
- 4 When cleaning, unplug the unit and wipe with a dry cloth. Do not use damp cloths, cleaning fluids, or aerosols which may result in electric shock, fire, or unit damage.
- 5 Operate this product using only the included power supply and/or power cable. Use of an unapproved power implement may impair performance, damage the product, or cause fires.
- 6 Do not block any ventilation openings. Install in

accordance with the manufacturer's instructions.

- 7 Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
- 9 Only use attachments/accessories specified by Atlona to avoid fire, shock, or other hazards.
- 10 To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
- 11 Unplug this product during lightning storms or when unused for long periods of time.
- 12 Never open, remove unit panels, or make any adjustments not described in this manual.Attempting to do so could result in electric shock, damage to the unit, or other hazards.



Norway: This product was intended for TN power distribution system and IT power system of Norway.

FCC Statement



FCC Compliance and Advisory Statement: This hardware device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. 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 in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference

to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.



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Introduction

The Atlona AT-VCC-RELAY-KIT is an accessory for the Atlona Velocity[™] Control System that provides conversion between IP control commands and relay / sensor signals. This Velocity Control Converter is very compact and can be placed anywhere a device requires control and is not IP-capable. The VCC-RELAY-KIT is remotely powered through Power over Ethernet (PoE), or locally from a USB power source. The primary unit installs onto any surface via a convenient mounting dock. A simple "click" locks it into place for a secure, reliable installation. The control port module supports DIN rail installation, and features four relay outputs plus four sensor inputs. The inputs and outputs are both configurable for various operating modes.

Features

- Provides conversion between IP and relay / sensor control signals for the Velocity Control System
- Compact form factor inconspicuous and easily concealable
- Easy to set up and configure using the Velocity Control Suite
- Remotely powered via PoE (Power over Ethernet)
- Also can be powered through USB from a nearby USB power source
- Primary unit installs onto any surface via a convenient mounting dock simple "click" locks device into place
- · Control port module includes four relay outputs and four sensor inputs
- Relay outputs configurable to support common relay types Single Pole Single Throw (SPST), Single Pole Double Throw (SPDT), and Double Pole Double Throw (DPDT)
- Sensor inputs can be configured to support voltage or contact closure sensing
- Push-in terminal blocks for relay and sensor connections
- 4.5 foot (1.4 meter) cable
- Control port module supports DIN rail installation
- Award-winning 10 year limited product warranty

Package Contents

1 x AT-VCC 1 x AT-VCC-RELAY

Operating Notes

- The Velocity Command Converter must be on the same network as the Velocity Gateway (AT-VGW-250) or it will be unable to sync for control.
- The AT-VCC-RELAY-KIT is PoE, to power the unit, simply plug it into a PoE compatible network switch. If the network switch is not PoE capable, a PoE injector (purchased separately) or USB can be used.
- All devices (AT-VCC, Velocity, AT-VTP, switchers, etc) should be set to static IPs or the DHCP IP address reserved for each individual device.





Panel Description



1 Ethernet

Connect an Ethernet cable from this port to the same network as the Velocity Gateway.

2 USB

Optional - Connect a mini USB to USB cable here for power.

3 3.5mm Port

Connect to a VCC relay connector.



4 Relay

Connect relay here, adjusting the jumpers to set the unit to the correct mode.

5 Sensor

Connect sensor here, adjusting the jumpers to the correct mode.

6 3.5mm Connector

Connect the 3.5mm connector to the 3.5mm port of the VCC.

Connection Diagram





Configuration

Relay

The relay has 4 terminals which vary in function depending on how the jumpers above the ports are set.

NOTE: Relays can only work up to a maximum of 24V and 500 mA current.

Single Pole, Single-Throw (SPST)

Place the jumpers as shown below, this can be done to a single connector or to both to create up to 4 independent relays.



Single Pole, Single-Throw is best used when using a device with a simple open/close (off/on) circuit is being used.

Single Pole, Double-Throw (SPDT)

Place the jumpers as shown below, this can be done to a single connector or to both to create up to 3 independent relays.





Single Pole, Double-Throw is best used when two circuits are going to one common, such as: switching between two input circuits or selecting two power sources.



Double Pole, Double-Throw (DPDT)

When DPDT is selected within Velocity, it will create 2 relays that work simultaneously. If one port is opened, the other will open at the same time. The DPDT is a variant of the SPDT and the jumpers must be placed exactly as below to work.



Sensor

The ports can be set to sense either voltage or contact closure. Contact closure will react to the change in current, while voltage will react to voltage as low as +/- 3V or as high as +/- 24V.



Contact Closure

Both ports are set to Voltage Sensor

Closure for the first two ports and Voltage Sensor for the last two.

IP

The AT-VCC is set to DHCP by default. If the network does not support DHCP, it will automatically set the AT-VCC to the static IP of 192.168.1.70 after 30 seconds.

VHelp and webGUI

Velocity will find the VCC when scan network is used, but if the VCC needs to be set up off site first, the software VHelp can be used.

- 1 Connect the Relay connector into the 3.5mm port on the unit.
- 2 Connect the AT-VCC to a network switch (PoE is best if a PoE switch is not available, a power injector or mini USB to USB cable may be used).
- Download VHelp from the resource tab of https://atlona.com/product/at-vcc-relay-kit/. 3
- 4 Unzip the file to the local PC
- 5 Double-click the VHelp executable to open the program. Vhelp will start discovery as soon as the program is opened.





Configuration

🔕 vHelp	+	– 🗆 ×	🙆 vHelp		- 🗆 X
Detected Units			Detected Units		
Model	IP Address	MAC Address	Model	IP Address	MAC Address
			AT-VCC	192.168.11.180 192.168.11.112	00011E044E867 B8368004E8BC
		Auto refresh			Auto refresh
Looking for units		About	Looking for units		About

6 Double click on the VCC (to determine the correct one, look on the bottom of the VCC for the MAC address). The PC default browser will open to the AT-VCC webGUI.

	Velocity Command Converter Configuration		Bock	Network Settings	Connecting Technology
Network Settings		٥	DHCP Enabled)
Velocity Control Cable		0	Name.	AT-VCC04EBC7]
			Save Changes		

- Select Network Settings to open the IP configuration page. 7
- Select the DHCP Enabled header, this will disable DHCP and allows IP settings to be edited. 8

G Back	Network Settings	
DHCP Disabled		
IP Address:	192.168.11.180	
Subnet Mask:	255.255.255.0	
Gateway:	(192.168.11.1	
Primary DNS Server:	(192.168.11.1	
Secondary DNS Server:	0.0.0.0	
Name:	AT-VCC04EBC7	
Save Changes		
		Nuclear MA

9 Type in the IP details to match the network details of the Gateway. e.g. If the Velocity gateway is located at the IP of 192.168.12.15, then the VCC should be set to an IP within the 192.168.12.XXX range that has not already been used.

ൽ ≇ +

10 Press the Save Changes button.

8

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- 11 Open any browser on the network and type in the IP address of Velocity.
- 12 Select the = button from the top left corner and select Sites.





- 13 Select the building that corresponds with the room of the VCC.
- 14 Select the room the VCC is located in. A new screen will take over the window and display the technology in the room.
- 15 Select the + button located at the top right corner of the room. A new menu will open.



16 Press the scan network button. All Atlona devices found will appear in the unassigned list.

Networked (Unassigned	1)	^
Rooms:		
1 A 8 1 .	AT-OMNI-122	Add
	OmniStream Dual-Channel Networked AV Decoder 192.168.11.170	Pinging
Rooms:		
		\frown
visitor.	471/00	Add

17 Select the Add button next to the VCC. A new pop up will appear.

Select your VCC Model		Select your VCC Model	
Select Mode •	CLOSE ADD VCC TO ROOM	Select Mode VCC IR VCC IR VCC IR VCC IR VCC Relay/Select VCC Select VCC Select VCC Select	ADD VCC TO ROOM

- 18 Select the VCC Relay/Sensor from the drop down menu.
- 19 Press the ADD VCC TO ROOM button. A VCC tile will appear in the room.

The VCC is now ready to use. Refer to the Macros, Event Macros, and Room Triggers section of the Velocity manual for setting up relay control.



NOTE: If for some reason the unit isn't syncing or the settings aren't being set, they can be set up manually through the VCC webGUI.

- Type the VCC's IP into a web browser to open the Velocity Command Converter Configuration.
- Select Velocity Control Cable from the two options.

	Velocity Command Converter Configuration	
Network Settings Velocity Control Cable		0
Firmware version: 710-3000-20		



Configuration

• Select **Relay/Sensor** from the drop down menu.

Back		Velocity Control Cable	
Current Active Cable:			
	Infrared		
Change Velocity Control Cable:	Serial Relay/Sensor	•	
	© Copy	- right 2017 Atlona. All Rights Reserved <u>Support</u> - <u>Website</u>	Version: 15.2 Model: Velocity Command Converter IP

• Select the Relay/Sensor configurations.

Velocity Control Cable Current Active Cable: Relay/Sensor		NOTE: Ensure to select the Relay type that matches how the connector was pinned. Refer to Relay
Ourge Watch Cotton Cotton Press/Venew O		and Sensor sections if unsure how to set up the connector.
Relay/Sensor Cable Configuration		
Relay Type: SPST, SPST O SPST, SPST O		
Input States (Mo connector blocks 0 0 0 0 0		
on the right		
Tmar: 0 0 0 0		
Mode: Relay/Sensor (Standard)		
Save Configuration Refresh		
1 © Copyright 2017 Adona, Ad Rights Deserved. Support - Bishafts	Version 11.2 Maint Minute Constant P	



Control

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Once the VCC has been connected and configured, control can be set up. The VCC can be set to control devices through manual button selection, or automatic controls with event or room triggers.

NOTE: It is best to have Velocity and the room set up before setting up control. Ensure all devices are added and assigned correctly.



1 Select Room options from the right corner of the Technology page.

Macros

Macros can be used to manually open and close the relay ports, this can be used to control projector screens, room dividers, and more.

- 2 Select the Macros button. A new screen will take over the Room Control Options menu.
- 3 Press the orange and white + button in the top right corner. New options will appear.

× Room Co	ontrol Options			8
Room Name:	CI	lass 1		×
	CONTROL SETTINGS		USER INTERFACE	
Automation	1			
Macros:	(
Event Macros: Room Triggers:		⊡ ?		
Variables:		\leftrightarrow		
Boot Macro:	,	Macro	C	
Section Audio and I	Dialer Settings			
Master Audio D	levice		Volume Ramp Interval (ms) 200	
Dialpad Device			2 Dialpad Line Number	
Video Conference	v Video			



Control

	Custom Image	Macro Commands		-
		Screen Drop	⊧ ► (÷ ~
		Hide In: Drawer 🏾 Preset Page	כ	
		Command 1 Custom Value:		
		Device: Device: Velocity Command Conve	rter - Rel 👻	
	* UPLOAD	Command: Set Relay	Ŧ	
		Port: 1	٣	\leftrightarrow
		State: On1	٣	\diamond
		Repeat: 0 v Interval: 10 ms Delay (After)	0	ms 🚦
		Screen Close	۰ ا	+ ~
		Hide In: Drawer Dreset Page	כ	
		Command 1 Custom Value:	nter Del	
		Command 1 Custom Value:	rter - Rel 👻	
Close	* UPLOAD	Command 1 Custom Value: Device: Device: Velocity Command Conve Command: Set Relay	rter - Rel 🔹	_
Close	* UPLOAD	Cernmand 1 Custom Value: Image: Custom Value: Device: Device:	rter - Rel 💌	\diamond
Close	• UPLOAD	Cernmand 1 Custom Value: Image: Custom Value: Device: Device: Device: Command: Set Relay Port: 1 State: Off	rter - Rel \star	\leftrightarrow

- 4 Press the green + arrow to open the macro options.
- 5 Set the Device to Velocity Command Converter Relay.
- 6 Select the port that will be associated with the command.
- 7 Select the state that will be activated with the macro.
- 8 *Optional* Provide a command name and Alias name.
- 9 Press the save button in the top right corner of the screen.

In the first example, the Macro: Screen Drop will provide a macro button to select from the control screen and close port 1 of the VCC-Relay to trigger the projector screen to drop down.

In the second example, the Macro: Screen Close will be available in the macro section in the control screen and will open port 1 of the VCC-Relay to trigger the projector screen to go back up.

NOTE: On1 and On2 are used when the VCC is set to Double Pole, Double-Throw. While in this mode, off will not be functional.

NOTE: These are just general examples for control. The VCC-Relay can be used to control anything that use relay controls.

Event Macros

Event Macros can be set up to trigger the Relay to open and close when certain commands are sent. This enables automatic control of devices such as drop down screens, lights, etc.

- 2 Select the Event Macros button. A new screen will take over the Room Control Options menu.
- 3 Press the orange and white + button in the top right corner. New options will appear.

< Room Control Options		Ð
Room Name:	Class 1	×
CONTROL SETTINGS	s User Interface	1
よAutomation		
Macros:		
Event Macros: Room Triggers:	r i i i i i i i i i i i i i i i i i i i	
Variables:	↔	
BOOL MACIO.	C C	
⁵-Audio and Dialer Settings		
Master Audio Device	Volume Ramp Interval (ms) 200	
Dialpad Device	 Dialpad Line Number 	
Video Conference Device		



Control

× Event Macros					•
Feature	Macro Commands				+
	Screen Open		*	(+) ~	:
	Command 1	Custom Value:			
	Device:	Device: Velocity Command Converter - Rel 💌			
Feature	Command:	Set Relay v			
Rooms - Room On	Port:	1 *		$\langle \rangle$	
	State:	on1 •		\diamond	
	Repeat: 0 +	Interval: 10 ms Delay (After): 0	ms 🚦	
	Screen Close		۰ ا	+ ~	:
	Command 1	Custom Value:			
	Device:	Device: Velocity Command Converter - Rel 💌			
Feature	Command:	Set Relay 👻			
Rooms - Room Off	Port:	1 *		\diamond	
	State:	off 🔹		\sim	
	Repeat:	Interval: 10 ms Delay (After): 0	ms 🚦	
	· •				

Feature	Room State	Macro Comr	nands		
		Unnamed Roo	em Event Macro 1	۰ ا	+ ~
		Command 1	Custom Value:		
		Device:	Device: Velocity Comman	d Converter - Rei 💌	
sture		Command:	Set Relay	Ŧ	
ooms - Room Off		Port:	1		\leftrightarrow
		State:	off	*	\diamond
		Repeat: 0 v	Interval: 10 ms	Delay 0 (After):	ms 🚦
		Repeat: 0 +	Interval: 10 ms	Delay 0 (After):	ms :
		Repeat: 0 +	Interval: 10 ms	Delay 0 (After):	ms :
		Repeat: 0 •	Interval: 10 ms	Delay 0 (After):	ms :
store	Not Applicable	Repeat: 0 v	Interval: 10 ms Custom Value: Device: Velocity Comman Set Relay	Delay 0 (After):	+ ~
_{store} plit Room - Room Split	Not Applicable	Repeat: 0 Screen Drop Command 1 Device: Command: Port:	Interval: 10 ms Custom Value: Device: Velocity Comman Set Relay 1	Delay 0 (After): 0 d Converter - Re + +	+ ~
uture Jilit Roam - Room Split	Not Applicable	Repeat: 0 v	Interval: 10 ms Custom Value: Device: Velocity Comman Set Relay 1 on1	Delay 0 (After):	+ ×

- Press the green + arrow to open the macro options.
- 5 Set the Device to Velocity Command Converter Relay.
- 6 Select the port that will be associated with the command.
- 7 Select the state that will be activated with the macro.
- 8 *Optional* Provide a command name and Alias name.

In the first example, the Event Macro: Screen Open will close port 1 of the VCC-Relay to trigger the projector screen to drop down when the Room On command within Velocity is used.

In the second example, the Event Macro: Screen Close will open port 1 of the VCC-Relay to trigger the projector screen to go back up when the Room Off command within Velocity is used.

- 9 *Only when Split Rooms is enable within Room Options* Select which room states this event will be active in.
- 10 Press the save button in the top right corner of the screen.

In the first example, the Event Macro is triggered by the Room Off command, and will only take effect when the room is Split. This will trigger port 1 of the relay to open and break the circuit for the connected device.

In the second example, the Event Macro is triggered by the room mode being set to split room. Room state is not an option for this triggering event. The room being split will trigger port 1 of the relay to close and complete the circuit for the connected device.



NOTE: On1 and On2 are used when the VCC is set to Double Pole, Double-Throw. While in this mode, off will not be functional.

NOTE: These are just general examples for control. The VCC-Relay can be used to control anything that use relay controls.

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Room Trigger

Room Triggers can be used to create automated events when the VCC sensors are opened or closed. This can be used to trigger Velocity to send commands, macros, and more.

- 2 Select the Event Macros button. A new screen will take over the Room Control Options menu.
- 3 Press the orange and white + button in the top right corner. New options will appear.

× Room Control Options	8	× Room	Triggers
Room Name:	Class 1 ×	Trigger	Macro Commands
CONTROL SETTINGS	USER INTERFACE		
*Automation			
Macros:			
Event Macros: Room Triggers:			
Variables:	o o		
Boot Macro:	Macro C		
Settings			
Master Audio Device	Volume Ramp Interval (ms) - 200 -		
Dialpad Device	 Dialpad Line Number 		
Video Conference Device			
Enable Audio Follow Video	•		
× Room Triggers		• 4	Select the Velocity Command Converter - Relay from the Device drop down.
Trigger	Macro Commands	•	
Select Device Velocity Command Converter - R	Samsung TV On Command 1 Custom Value:	: 5	command.
Select Setting VCC Sensors:Sensor 1 v	Device: Device: Samsung TV 1 Power On	6	Select the value that will activate the command.
Value Opened ~	Repeat 0 + Intervalt 10 ms Delay (After): 0 ms	7	Select the Device and command that will be controlled when the sensor is triggered.

In this example, the sensor being broken will trigger Velocity to send the command Power On to the Samsung TV.

- 8 *Optional* Provide a command name and Alias name.
- 9 Press the save button in the top right corner of the screen.

	Screen Close		* •	+ ~	In this example,
Select Device	Command 1	Custom Value:			to set the VCC-
Velocity Command Converter	Device:	Device: Velocity Comman	nd Converter - Rel 💌		the VCC's conn
Select Setting	Command:	Set Relay	Ψ		trigger the even
VCC Sensors:Sensor 2	Port:	1	v	<>	
Value Opened ~	State:	off	¥	<>	
	Repeat: 0	 Interval: 10 	ms Delay (After): 0	ms 🚦	

In this example, the sensor being broken will trigger Velocity to set the VCC-Relay port 1 to open. This example will cause the VCC's connected screen to close. It can also be used to trigger the events from the Event Triggers at the same time.



Split Rooms

A big use of the Room Triggers is for Split Rooms. This will provide a way to automate rooms when sensors are triggered by opening and closing of a room divider and much more.

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1 Set up the room with all the devices.



NOTE: Connect the sensor of the VCC-Relay to the room divider, so that when the divider is opened and closed it will complete or break the circuit.

2 Ensure all devices are set to their side of the room. When using a switcher, the inputs can be set within the switcher menu.

Samsung TV Vie	deo Input Connections				~
Video Input (Connections (Samsung TV 1)	•		ş	icreen Buttons
ANTENNA All Sectio	Connection	Ordering D	Alas ANTENNA	Show	loon
HOM 1 Left	Connection AT-UHD-CLSO-824 1- I-	Ordering 0	Alias HDMI 1	Show	loon
Sony TV Video I	kory TV Video Input Connections v				
Video Input (Connections (Sony TV 1) 🥹			Scree	en Buttons
ANALOG RGB 1 All Sectio	PC Connection	Ordering 0	Allas ANALOG RGB 1 PC	Show	loon
HDMI 1	Connection	Ordering	Alian Luthan d	Show	long

NOTE: If a device is set to All Sections, when the room is split, either side of the room can control that device. It is best to set to one section so neither presenter will accidently control the wrong source.



- 3 Select Room Options from the top right. A menu will open on the left side of the screen.
- 4 Scroll down to the Control Page Layout section and Select the Enable Split Room slider. A new option will appear below. Enable the Is room currently split if the room is currently set up as split, this is not required for setting up the rest of the control.

💲 🛓 Technology		- ≌ ⊷
× Room Control Options	e o n	
Room Name: Class 1 *		
	Control Page Layout	
Automation	Enable Split Room:	
Event Macros	Is room currently split:	
Variables: O Boot Macro: Macro C	Enable Switching on Source Drag	
€- Audio and Dialer Settings	Enable Light Button Toggle	
Matter Auto Descer Vibleen Range Internal (m.) 200	Enable Touch Panel Mirroring	
Dialpad Device - 💿 Dialpad Line Number -	Enable Passcode Locking	



5 Scroll back to the top of the room options and select Room Triggers.

Koom Control Option Room Control Option	ons		8
toom Name:	Class 1		×
CONTROL SE	0 TTTINGS	USER INTERFACE	
Automation			
Macros:			
Event Macros:			
Room Triggers:	(Ŧ)		
Variables:	\diamond		
Boot Macro:	Macro	C	
Kaudio and Dialer Settin	gs		
Master Audio Device		Volume Ramp Interval (ms) 200	
Dialpad Device		Ø Dialpad Line Number	

× Room Triggers		8
Trigger	Macro Comm	ands +
	Unnamed Room	Trigger Macro 1 🔹 🕨 🕂 👻 🚦
	Command 1	Custom Value:
	Device:	Velocity +
	Command:	CLOSE ROOM v
Select Device	Room:	Conference 🔹 <>
Velocity Command Converter "	Repeat:	Interval: 10 ms Delay (After): 0 ms
Select Setting		
VCC Sensors:Sensor 1 v	Command 2	Custom Value:
Value	Device:	Device: Velocity Command Converter - Rel 💌
Closed	Command:	Set Relay v
	Port:	1 × 🔿
	State:	on1 • <>
	Repeat	Interval: 10 ms Delay (After): 0 ms
	Unnamed Roo	m Trigger Macro 2 🛛 🔹 🕨 + 🗸
	Command 1	Custom Value:
	Device:	Velocity
	Command	OPEN ROOM v
	Gommand.	Conference
Select Device Velocity Command Converter 🖤	Room:	
-	Repeat: 0	v Interval: 10 ms Delay (After): 0 ms
VCC Sensors:Sensor 1	Command 2	Custom Value:
Value	Device:	Device: Velocity Command Converter - Rel 💌
Opened ~	Comments	Set Relay +
	Command:	
	Port	· · · · · · · · · · · · · · · · · · ·
	State:	off • • <>
	Repeat: 0	🔹 Interval: 10 ms Delay (After): 0 ms 🚦



mode, off will not be functional.

19 Press the save button in the top right corner of the screen.

The room will now switch back and forth between Split and Open based on if the room divider is open or closed. With the optional steps it will also trigger the display screen open and closed at the same time.



Appendix

Specifications

Ports						
Network Connection	RJ-45, 100/10 Mbps Ethernet Protocol					
Relays	4 x SPST with transient voltage suppression 24 V AC/DC or 0.5 A NO contact					
Relay Configurations	Single Pole Single Throw (SPST) Single Pole Double Throw (SPDT) Double Pole Double Throw (DPDT)					
Sense Modes	Voltage: AC/DC voltages \pm 3 V to \pm 24 V (RMS) Contact Closure: Use for input from devices or feedback from external relays					
Power						
USB	Micro-B					
PoE	802.3af-compliant					
Dimensions	Inches	Millimeters				
H x W x D (AT-VCC-RELAY)	0.90 x 3.24 x 2.00	22.86 x 82.29 x 50.80				
H x W x D (AT-VCC)	0.82 x 1.22 x 2.58 20.82 x 30.98 x 65.53					
Weight	Pounds	Kilograms				
AT-VCC-RELAY	0.15	0.06				
AT-VCC	0.05	0.02				





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