Wzzard[™] Mesh Gen2 Starter Bundles **Refrigeration Monitoring Kit**

Model BB-WSK-REF-2 SETUP MANUAL





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REFRIGERATION MONITORING STARTER KIT

Kit Model BB-WSK-REF-2

The Wzzard[™] Mesh Refrigeration Monitoring Application Kit provides a non-intrusive, easily installed solution for monitoring internal and external temperature, door open/closed and current draw on refrigeration equipment without disrupting your existing facility operations. Email or text message alerts can be sent when user-configured high or low limits are exceeded in critical applications.

Installation costs are kept low using the Wzzard Mesh Wireless Sensing platform. The platform creates a self-forming, self-healing wireless mesh network that eliminates the need for wires and requires no special skills to install. Each Wzzard sensor node is powered by long life batteries.

Using Node-RED[™], a simple, browser based application pre-installed on the gateway, you can monitor your cooler or freezer performance from any web browser on your network.

The contents of the kit include:

Qty 1	BB-WCD1H2102H	Commercial Temperature/Humidity Wzzard Mesh Node
Qty 2	BB-JC10F50-V	50A Clamp-on Current Sensor
Qty 1	BB-WCHCBL	Thermistor/Breakout Cable
Qty 1	BB-WCHMS	Door Sensor Cable
Qty 1	SmartSwarm 342™	Ethernet Wzzard Mesh Gateway

WZZARD MESH NETWORK SETUP

The Wzzard Mesh Node and Gateway in this kit are preconfigured. If this is the only Wzzard Mesh device in your vicinity, it will need no further configuration. If other Wzzard Mesh gateways or nodes are nearby and unclaimed, you will need to claim the gateway and the node. See respective node and gateway manuals for instructions.

DOWNLOADING REFRIGERATION MONITOR NODE-RED[™] FLOW TO THE GATEWAY

NOTE: The gateway must be in operational and online state in order to add the HVAC application (ie Eth1 must be plugged in).

- 1. Follow the instructions in the Gateway's Quick Start Guide to claim your gateway.
- 2. Select View Devices from the dropdown menu on the SmartWorx[™] Hub home screen:

	Home	- Help Log off
AD\ANTECH		Hello, knelson@advantech-bb.com
Dashboard		
Devices -		
Claim/Release Device		
Technology Providers		
Configuration Profiles		
Password -		
Contact		

3. Select your device from the list of available devices:

	ces - Users -	Technology Providers Config	uration Profiles	Password	- Cont	act				
Dashboard > Devices > View Devices Manage devices in list below Download Client										
Device ID	Name	Q Search	Profile	Provider	Owner	Status	Online			



4. Select Add/Upgrade Apps tab.

	B-B SMARTWORX Powered by ADIANTECH Manage Device Help Log off Hello, knelson@advantech-bb.com										
Dash	board	Devices -	Users -	Technology Providers	Configuration	Profiles	Password -	Contact			
Dashboa	ard > Device	es > Manage Devic	е								
Device	e ID	203-01-650043	33								
Name		203-01-65004	133								
Status		Operational		¥		٠	MESH	SMARTSWARM ® 300 Benes			
Firmwa	are	2.2.0		▼ Push							
Device	Туре	SG30000525-4	2								
MAC A	ddress	00:0A:14:86:77	:C6								
Online		1									
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Save	Can	cel Histor	Add/Upgrad	le Apps Geo Location	Wzzard Mesh						
Mana	ge App	os									
Rem	ove Sele	cted									
	Name		Tag		Туре	Version	Help	Added			
	Wzzard	Mesh	Wzzar	d Mesh	Application	1.0.6		29/03/2018 17:55:17			
	Compor	nents-342	Comp	onents-342	Component	1.4.0		29/03/2018 17:55:17			
1											

5. Check the box next to REF. A list of components to be updated will appear.

Dash	board	Devices -	Users -	Technology Providers	Configuration Profiles	Password -	Contact	knelson@adva	
shboa	ard > Devic	es > Manage Devi	ce > Select Appli	cations					
Add/	Upgrade	Selected	Cancel						
	Name			Тад		Туре		Version	
)	DustCl	LI				Application	1	1.0.1	
)	NodeR	RED				Applicatior	ı	1.0.10	
)	RSMe	ssageBroker				Application	1	1.0.4	
)	Wzzar	d Mesh				Application	١	1.0.6	
)	Compo	onents-342				Componer	nt	1.4.0	
)	NodeJ	S				Componer	nt	6.2.1	
)	HVAC					Package		1.0.0	1
)	NRG					Package		1.0.0	6
)	REF					Package		1.0.0	1

6. Click **OK** to accept the download.

		Select Application	s			Help Log off Hello, knelson@advantech-bb.com
Dashboa	rd Devices + U	Requirements			×	ict
	ard > Devices > Manage Devic /Upgrade Selected	Wzzard Refrigeration M	lonitoring Ap	plication		•
	Name	File	Version	Size MB	Status	Version
0	DustCLI	Firmware	2.2.0	15.00		1:0.1
	NodeRED	Components	1.4.0	06.00	0	1.0.10
		NodeRED	1.0.10	00.01	0	
.0	RSMessageBroker	Endora	1.0.6	02.00	0	1.0.4
	Wzzard Mesh	RSMessageBroker	1.0.4	00.07	0	1:0.6
		BB.png		00.00	•	
	Components-342	BB-WSK-REF-2.txt	1.0.0	00.09	•	1.4.0
.0	NodeJS	Total Download size: 00.10 ME	3			6.2.1
	HVAC			(OK Cancel	1:0.0
0	NRG				Package	1.0.0

7. Click Add/Upgrade Selected to start the download.

	owered by	ARTWORX AD\ANTECH	 Sele 	ct Applications			LI-"-	knalaan Ør tur	Help Log o
Dash	board	Devices -	Users -	Technology Providers	Configuration Profiles	Password -	Contact	, knelson@adva	ntech-bb.co
ashboa	ard > Device	es > Manage Devic	e > Select Appli	cations					
Add/		Selected	ancel					Manaian	
	Name DustCL	1		Tag		Type Applicatio	מנ	Version	
	Dustol	_'				Approvide		1.0.1	
	NodeR	ED				Applicatio	on	1.0.10	
	RSMes	ssageBroker				Applicatio	on	1.0.4	
	Wzzaro	d Mesh				Applicatio	an	1.0.6	
	VVZZGIO					Appleau	511	1.0.0	
	Compo	onents-342				Compone	ent	1.4.0	
	NodeJ	S				Compone	ent	6.2.1	
	HVAC					Package		1.0.0	•
	INAU					Fackage		1.0.0	1
	NRG					Package		1.0.0	1
1	REF					Package		1.0.0	1
1									

8. The download could take several minutes. To monitor the progress, select **History** from the **Manage Device** screen.

B-B SMARTWORX Powered by ADNANTECH Manage Device Help Log off Hello, knelson@advantech-bb.com										
Dashboard	Devices -	Users -	Technology Providers	Configuration Profiles	Password -	Contact	-			
Dashboard > De	evices > Manage	Device								
Device ID	203-01-65	00433								
Name	203-01-6	500433								
Status	Operatio	onal	T		•	SMARTSWARM 300 Series				
Firmware	2.2.0		• Push				a a s			
DeviceType	SG300005	525-42								
MAC Addres	ss 00:0A:14:8	36:77:C6								
Online	1									
Settings	Select		•							
Save C	Cancel Hist	ory Add/U	pgrade Apps Geo Loc	ation Wzzard Mesh						

9. As each component is updated, it will be indicated with a \checkmark check mark:

NOTE: "AddNode" commands will show an X if they have already been installed.

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						не	io, kneis	on@auv	antech-bb.co
Dashboard De	vices - Users -	Technology Provider	s Configuratio	on Profiles	Password *	Contact			
ashboard > Devices > M	anage Device > History								
Device Name	203-01-650	0433							
Device ID	203-01-650	0433							
Registered On	29/03/2018	17:45:58							
Last Check In	19/04/2018	16:40:47							
how 10	* e	ntries							
Command	Created by	Name	Queued	Comple	eted	Success	Respo	onse	
UploadConfig	203-01-6500433	2.2.0	19/04/2018 16:38:42	19/04/2	018 16:38:42	*	{"conf	ig":"swm	_firewa
JploadConfig	203-01-6500433	2.2.0	19/04/2018 16:38:31	19/04/2	018 16:38:31	*	{"conf	ig":"swm	_firewa
AddFlow	knelson@advantech- bb.com	REF	19/04/2018 16:38:26	4/19/20 PM	18 4:42:23	*	Succe ["cfcc(ess, 09de.5a	9a48"]
GetFlow	knelson@advantech- bb.com	REF	19/04/2018 16:38:26	19/04/2	018 16:38:33	*			
nstallNewApp	knelson@advantech- bb.com	REF	19/04/2018 16:38:26	19/04/2	018 16:38:26	*	Comp	leted	
GetBinaryFile	knelson@advantech- bb.com	-	19/04/2018 16:38:26	19/04/2	018 16:38:31	*			
DownloadSettings	knelson@advantech- bb.com	- swm_firewall	19/04/2018 16:38:26	19/04/2	018 16:38:31	*			
DownloadSettings	knelson@advantech- bb.com	- swm_firewall	19/04/2018 16:38:26	19/04/2	018 16:38:30	*			
GetVersions	203-01-6500433		18/04/2018 21:27:59	18/04/2	018 21:28:05	*	{"apps	s": [{"nar	ne": "R
RemoveFlow	knelson@advantech- bb.com	- HVAC	18/04/2018 21:23:46	18/04/2	018 21:23:52	*	Succe	SS	
howing 1 to 10 of 1:			21:23:46						

Note: If, for some reason all or a portion of the installation fails, repeat the procedure to install the rest of the package.

REFRIGERATION MONITORING KIT

POINT THE MQTT DATA TO THE INTERNAL MQTT BROKER

1. From the **Manage Device** screen, click the **Wzzard™ Mesh** application.

	B+B SMARTWORX Powered by ADANTECH Manage Device Help Log off									
Das	hboard	Devices -	Users -	Technology Providers	Configuration Pr	ofiles Pa	assword -	Hello, knelson@advantech-bb.com		
		es > Manage Devic		rechnology Providers	Configuration PT		330010	Contact		
Devic		203-01-65004								
Name										
Hume		203-01-65004	433							
Statu	s	Operational		•		۲		SMARTSWARM		
							MEDH			
Firmy	vare	2.2.0		• Push						
		2.2.0		Fush						
Devic	еТуре	SG30000525-4	12							
MAC	Address	00:0A:14:86:77	7:C6							
Onlin	e	1								
Settin	igs	Select		•						
Sav	e Can	cel History	Add/Upgrad	le Apps Geo Location	Wzzard Mesh					
	age Ap									
Ren	nove Sele	cted								
	Name		Tag		Туре	Version	Help	Added		
	NodeJS		Node	JS	Component	6.2.1		18/04/2018 14:51:22		
	Wzzard	Mesh	Wzza	ard Mesh	Application	1.0.6		29/03/2018 17:55:17		
	NodeR	ED	Node	RED	Application	1.0.10		17/04/2018 20:57:46		
	RSMes	sageBroker	RSM	essageBroker	Application	1.0.4		17/04/2018 20:57:46		
	Compo	nents-342	Com	ponents-342	Component	1.4.0		29/03/2018 17:55:17		

2. Fill in the **Application Settings** screen as shown and click the **Apply Changes** button:

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	Application Sett	ings		
	Device ID	203-01-6500433		
	Application Name	Wzzard Mesh		
MQTT	Version	1.0.6		
	Tag	Wzzard Mesh		
	Save Tag Cance	el Apply Changes	MQTT	* Required Field
	Host:		192.168.1.1	
	Port:		1883	
	Username:			
	Password:			
	Client ID:		122	*
	Timeout (secs):		60	
	Retry Interval (se	ecs):	10	
	Keep Alive (secs):	60	
	Reliability:			
	Clean Session:			
	Enable TLS:		No	
	Verify Server Cer	t:		

WAKE UP WZZARD™ MESH EDGE NODE

- 1. Press and hold the **Config/Status** button for 5 seconds until the Status LED starts blinking.
- 2. Check LED.
- 3. After you have awakened the node, the LED will begin to blink. This indicates that the node is attempting to establish a network connection. The LED will cease blinking when a connection is made or after 10 seconds. Press the Config/Status LED for approximately 1 second to view the LED status.

LED Indicator	Status	
OFF (after button press)	Node is asleep or dead battery.	
Slow Blink (1 per second)	Attempting to establish connection with Wzzard mesh network.	
Solid ON	Node is connected to a gateway.	
Fast Blink (10 per second)	Firmware update in progress.	

ACCESS Node-RED™ UI IN THE GATEWAY

- 1. Attach the antenna to the Wzzard[™] Mesh antenna port on the gateway.
- 2. Attach the Ethernet cable to the ETH0 port on the gateway and the other end to your PC. You will use an Ethernet connection to configure the gateway and to communicate with it.
- 3. Attach the supplied power supply and plug it in.
- 4. Open a browser on your computer and open the Node-RED Configuration page. The default address is: **192.168.1.1:1880/ui.** (Chrome or Firefox recommended.)

≡ Configuration					
	Wzzard				
	Wzzard Node Info				
	Dust MAC Address: 00170D0000310AA3	¢	The software will automatically u	use the Dust MAC Address of the device.	
	Serial No :			Hardware Version :	
	Model Type :	F	irmware :	Manufacture Date :	
	Select Cellular Carrier Info for Tex	t and Email alerts			
	Select Carrier: Select an Option	 Enable Text Alert 	ts: X Enter Phone # (no dashes) Enable Emai	il Alerts: × Enter an Email Address	
	Enable Alerts for Chamber Temp:	× c	hamber Temp Upper Alert (°F)	Chamber Temp Lower Alert (°F)	
	Enable Alerts for Ambient Temp:	× A	mbient Temp Upper Alert (°F)	Ambient Temp Lower Alert (°F)	
	Enable Alerts for Humidity:	× H	umidity Upper Alert (%)	Humidity Lower Alert (%)	
	Enable Alerts for Compressor Curren	t: × <u>o</u>	ompressor Current Upper Alert (Amps)	Compressor Current Lower Alert (Amps)	
	Enable Alerts for Fan Current:	× Fe	an Current Upper Alert (Amps)	Fan Current Lower Alert (Amps)	
	Enable Open Door Alert:	× D	oor Open Timer (Minutes)		
(NETWORK HEALTH DASHBOAR	D			

- 5. The Wzzard Node information values will populate when the node joins the network.
- 6. You can set up a phone number to receive text messages and/or an e-mail address for receiving alerts on this page. For text messaging, you will need to select the cell carrier of the receiving phone. If the carrier is not on the list, select custom, and add the URL of the carrier to the phone number (ie: <u>1-123-2345@txt.abcphone.com</u>). See Appendix A for carrier text addresses. If your carrier is not listed, contact your carrier for the address of their SMS gateway.
- 7. You can enable or disable alerts as well as setting the trigger values on this page also.

NETWORK HEALTH PAGE

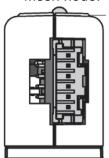
1. Click the **Network Health** button on the lower left corner of the **Configuration** page (see previous screen). The page below appears. This page shows the status of the network.

\equiv Network Health				
Wzzard				
Paths to Gateway. 1 Ambient Temp Mesh Network Reliability 5				
0 We 14:00 Th 02:00 Th 14:00 Fro2:00 Fr14:00 Sa 02:00 Sa 14:00 Su 02:00 Su 14:00 Mo 02:00 Mo 14:00 Tu 02:00 Tu 16:00 Mesh Network Reliability History 101.0 100.0				
100 0 995 995 990 990 990 990 990 990 990 990 990 900 1000000000000000000000000000000000000				

ATTACHING THE SENSORS ON THE INTELLIGENT EDGE NODES

The Wzzard[™] Mesh Refrigeration Monitoring Kit comes with built-in sensors for ambient temperature and humidity, along with two AC current sensors, a door switch, and a breakout cable with 10K thermistor.

1. Plug the Breakout/Thermistor Cable into the Molex connector on the bottom of the Wzzard Mesh node.



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- 2. Plug the door sensor into the 2-pin connector on the breakout cable.
- 3. Connect the sensors for compressor and fan current to the bare wires on the breakout cable.

Sensor	Breakout Cable	Connection
Compressor	Sensor (+) to Stripped & Tinned Cable	AIN1 RED
Current	Sensor (-) to Stripped & Tinned Cable	AIN1 BLACK
Fan	Sensor (+) to Stripped & Tinned Cable	AIN2 YELLOW
Current	Sensor (-) to Stripped & Tinned Cable	AIN2 BLACK

Current Sensors

- 1. Open the wire protector clamp by pushing it away from the sensor body.
- 2. Attach your wires.
- 3. Close the wire protector clamp.



MOUNTING YOUR SENSORS

Current Sensors

The sensor can be mounted in any position.

1. Open the clamp release by pushing it away from the sensor body. Run the wire you are monitoring through the opening in the sensor.



2. Close the sensor firmly around your wire and ensure that the clamp release has snapped back into place.

ACCESSING THE DASHBOARD

- 1. Open a browser on your computer and open the Node-RED[™] Configuration page. The default address is: **192.168.1.1:1880/ui**
- 2. Click on the **Dashboard** button on the lower left corner of the configuration page.
- 3. The dashboard should look like the following screen.
- 4. You can switch to the **Configuration** page or **Network Health** page by clicking on their respective buttons on the lower left.



SETTING UP AN E-MAIL ACCOUNT

- 1. From your browser, open the Node-RED[™] flow at **192.168.1.1:1880**.
- 2. Enter your user name and password. Default is:
 - Username: NodeRED

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Password: 5mart5warm (set same as the SmartSwarm 342 password).

🖉 Node-RED : 10.1.201 x 🗸 💌 Workspace Webmail: E. I. x	(8)(0)(8)
	Q 🖈 🔼 😘 🖸 🗐 🔒 🥥 🗄
🔛 Apps 🖬 Walktbrough Creation 🖬 MySQL Python tutors 🗭 Paho - Open Source : 📓 Hello MQTT — Michis 🖶 Simply Modbus - Das 🔩 Node-RED Dashbaard 🧻 New Folder	Other bookmarks
Node-RED	- Deploy -
Q filmr redes Flow 1	+ info debug dashboar %
- Input	*
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Text Check for Phone no. Set message 200 1 maghour	
A add data med paked	
a mag payload a satch	
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Email Check for email address	
records input 2 - No email address - No email address -	
websocket	
to nt 15 mg/h dat 12	
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3. Find the green Send Email node on the right; double click on it.

REFRIGERATION MONITORING KIT

		-⁄ Deploy -
Store + RED: 101.0201 x ■ Making Windows Store: x ■ ← → C △ ◎ 101.02011880/#		то — с — с — с — с — с — с — с — с — с —
rection Node-RED		- Deploy - 🚍
inpet i	ex for most at attents	Edit e-mail node Cancel Dono To Canc
Output	Server	smtp.gmail.com 465
trp response to the first temp (such tem (such temp (such temp (such temp (such temp (such temp (s	🛓 Userid	johndoe@gmail.com
udp dutos dutos telecos teleto telecos teleto telecos teleto	Password	
function compared		

3. Enter your **UserID** and **Password** for your e-mail server in the appropriate boxes. (Leave the "To" field blank.)

NOTE: If you are using a G-Mail account, you will need to enable "Less Secure Apps" in the Google security settings. See below.

reating 🗖	MySQL Python tutoria	p Paho - Open Source n	Hello MQTT — Micha	Simply Modbus - Data	RED Dashboard	New folder
	Sign-in &	security				
						Saved passwords
						You have no synced passwords.
ifications						LEARN MORE
tes						
су						
activity						Allow less secure apps: ON
Jacunty						Some apps and devices use less secure sign-in technology, which could leave your account vulnerable. You can turn off access for these apps (which we recommend) or choose to use them despite the risks.
ols						
orage						

4. Click **Done**. Then click the **Deploy** button in the upper right corner of the page.

Note: Once you deploy the edited flow, you will have to re-enter any alert settings on the configuration screen of the dashboard.

SETTING UP YOUR DROPBOX FOR LOGGING

- 1. Log in to your Dropbox account or sign up for a new one.
- 2. Once signed up or logged in:
 - Go to https://www.dropbox.com/developers
 - Click Create Your App box in the center of the screen.
 - Select Dropbox API App.
 - Choose an appropriate answer as to whether your node should be limited to its own folder or given full access. (TIP: This can be changed later, so select **Yes** to restrict the application while testing might be a good idea.)
 - Choose an app name.
 - Click Create App.

The subsequent app page will contain the App Key. Save this string so you can enter it into the application later.

- 3. From your browser, open the Node-RED[™] flow at **192.168.1.1:1880**.
- 4. Enter your user name and password. Default is:

Username: NodeRED

Password: 5mart5warm (set same as the SmartSwarm 342 password).

S Node-RED 19218911 ×	
← → C û [01921581.1:1880/#flow/9b17/186.fae2c	☆ 🖪 🗄
Rode-RED	Teploy 🔻
Q filter nodes REF_342	+
v input	*
inject Degging Into	
catch Clock timestamp D Get Date	
status	
b link	
) mqt Set filename Set filename Set Filename Set Default Filename Set Default Filename Set File Name Set File Name Set File Name Set File Name Set Filename Set F	
htp befault Dropbox Filename ' of Set Default Filename or Set Dropbox Filename or Set File Name or Set File Na	
😵 websocket 🖟	
(top)	
() udp ()	
Ans moti Ping to validate Dropbox connection Set pingGood Faise	
modbustep Ping dropbox - C switch Set pingGood True Create Net Status Changed Create Network Message msg.payload	
✓ output Log data to file	
debug	
mqt)	Write Local Filename
http:response 😵	▲
websocket	
tcp	
	al Filename 🛛 🔅

5. Locate Log data to file, then scroll right to locate blue Write Local File node; double click on it.

REFRIGERATION MONITORING KIT

Node-RED : 10.1.0.201	X The same same same in the provide state of the same same		-	0-0-0	*
← → C ☆ ③ 10.1	0.2011880/#			P 🛧 🖸	
- Node-RED					
Q filter nodes		Edit dropbox ou	it node		
~ Input	REF_342			Cancel Don	ne
🖨 inject	Logos	La Dropbox	Dropbox		
catch p	ppd retry into 1.2011 1800 - 101 Excellent Login - retry				
status o	Bipd Indputro1.0.2011/Bio/ Fig. Bipd Indputro1.0.2011/Bio/ Fig. Bipd Indputro1.0.2011/Bio/ Fig.	Filenamo	Filename		
ink o		Local Filename	timestamps.txt		
mqtt		Name	Write Remote file		
http	Logging into				
websocket	togen and the second se				
tcp					
udp b	Logger Indext Logger Indext				
- autout	A refut room				- 1
~ output	Set Division Default Despise / File Default Terrerer Default Despise / File Default Terrerere				- 1
debug					
ink 💡					
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A V					

5. Then click on the **pencil icon** next to the Dropbox text window.

Rep: 19216811 ×	Kevn - 0 - X
← → C û 0 Not secure 192.168.1.1:1880/#flow/9b17f186.fae2c	@ ☆ 🗾 :
Node-RED	
9 filter nodes REF_342	dropbox out > Add new dropbox-config config node
✓ Input	Cancel Add
inject icatch istatus inik ini	Access Token Name Name To obt in an access token, visit the <i>Dropbox developer home</i> . Onde signed up: dicik 'Create app'. 2. select 'Dropbox API app'. 3. choose either App folder or Full Dropbox access, 4. choose an app name 5. click 'Create app'.
image: wide wide wide wide wide wide wide wide	On the subsequent page, click the button to generated an access token. Copy it into the box above,
Image: Serial interview Write Local File voutput	
Image: Second	
	On odes use this config On all flows

6. Fill in the **Access Token** that you got from Dropbox. (See yellow box for more information.)

- **AD\ANTECH**
 - 7. Click Update; then **Done** again to close both windows.
 - 8. Click the **Deploy** button in the upper right corner of the page.

NOTE: Once you deploy the edited flow, you will have to re-enter any alert settings on the Configuration screen of the Dashboard.

9. Enable logging on the dashboard web page.

APPENDIX A. CARRIER TEXT MESSAGING URL ADDRESSES

U.S.A. Carriers	
Alitel	[10-digit phone number]@message.alltel.com Example: 1234567890@message.alltel.com
AT&T (formerly Cingular)	[10-digit phone number]@txt.att.net [10-digit phone number]@cingularme.com Example: 1234567890@txt.att.net
Boost Mobile	[10-digit phone number]@myboostmobile.com Example: 1234567890@myboostmobile.com
Nextel (now Sprint Nextel)	[10-digit telephone number]@messaging.nextel.com Example: 1234567890@messaging.nextel.com
Sprint PCS (now Sprint Nextel)	[10-digit phone number]@messaging.sprintpcs.com Example: 1234567890@messaging.sprintpcs.com
T-Mobile	[10-digit phone number]@tmomail.net Example: 1234567890@tmomail.net
US Cellular	[10-digit phone number]email.uscc.net (SMS) Example: 1234567890@email.uscc.net
Verizon	[10-digit phone number]@vtext.com Example: 1234567890@vtext.com
Virgin Mobile USA	[10-digit phone number]@vmobl.com Example: 1234567890@vmobl.com

International Carriers	Email to SMS Gateway
7-11 Speakout (USA GSM)	number@cingularme.com
Airtel (Karnataka, India)	number@airtelkk.com
Airtel Wireless (Montana, USA)	number@sms.airtelmontana.com
Alaska Communications Systems	number@msg.acsalaska.com
AqI	number@text.aql.com
AT&T Enterprise Paging	number@page.att.net
BigRedGiant Mobile Solutions	number@tachyonsms.co.uk
Bell Mobility & Solo Mobile (Canada)	number@txt.bell.ca
BPL Mobile (Mumbai, India)	number@bplmobile.com
Cellular One (Dobson)	number@mobile.celloneusa.com
Cingular (Postpaid)	number@cingularme.com
Centennial Wireless	number@cwemail.com
Cingular (GoPhone prepaid)	number@cingularme.com (SMS)
Claro (Brasil)	number@clarotorpedo.com.br
Claro (Nicaragua)	number@ideasclaro-ca.com
Comcel	number@comcel.com.co
Cricket	number@sms.mycricket.com (SMS)
СТІ	number@sms.ctimovil.com.ar
Emtel (Mauritius)	number@emtelworld.net
Fido (Canada)	number@fido.ca
General Communications Inc.	number@msg.gci.net
Globalstar (satellite)	number@msg.globalstarusa.com

REFRIGERATION MONITORING KIT

Helio	number@messaging.sprintpcs.com
Illinois Valley Cellular	number@ivctext.com
Iridium (satellite)	number@msg.iridium.com
lusacell	number@rek2.com.mx
i wireless	number.iws@iwspcs.net
Koodo Mobile (Canada)	number@msg.koodomobile.com
LMT (Latvia)	number@sms.lmt.lv
Meteor (Ireland)	number@sms.mymeteor.ie
Mero Mobile (Nepal)	977number@sms.spicenepal.com
MetroPCS	number@mymetropcs.com
Movicom (Argentina)	number@sms.movistar.net.ar
Mobitel (Sri Lanka)	number@sms.mobitel.lk
Movistar (Colombia)	number@movistar.com.co
MTN (South Africa)	number@sms.co.za
MTS (Canada)	number@text.mtsmobility.com
Nextel (United States)	number@messaging.nextel.com
Nextel (Argentina)	TwoWay.11 <i>number</i> @nextel.net.ar
Orange Polska (Poland)	9digit@orange.pl
Personal (Argentina)	number@alertas.personal.com.ar
Plus GSM (Poland)	+48 <i>number</i> @text.plusgsm.pl
President's Choice (Canada)	number@txt.bell.ca
Qwest	number@qwestmp.com
Rogers (Canada)	number@pcs.rogers.com
SL Interactive (Australia)	number@slinteractive.com.au
Sasktel (Canada)	number@sms.sasktel.com
Setar Mobile email (Aruba)	297+number@mas.aw
Suncom	number@tms.suncom.com
T-Mobile (Austria)	number@sms.t-mobile.at
T-Mobile (UK)	number@t-mobile.uk.net
Telus Mobility (Canada)	number@msg.telus.com
Thumb Cellular	number@sms.thumbcellular.com
Tigo (Formerly Ola)	number@sms.tigo.com.co
Tracfone (prepaid)	number@mmst5.tracfone.com
Unicel	number@utext.com
Virgin Mobile (Canada)	<i>number</i> @vmobile.ca
Vodacom (South Africa)	number@voda.co.za
Vodafone (Italy)	number@sms.vodafone.it
YCC	number@sms.ycc.ru
MobiPCS (Hawaii only)	number@mobipcs.net

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