EPIC SAFETY

aero-k

Wi-Fi/Ethernet Alarm System Communicator

Honeywell Alarm Panels

Installation Guide
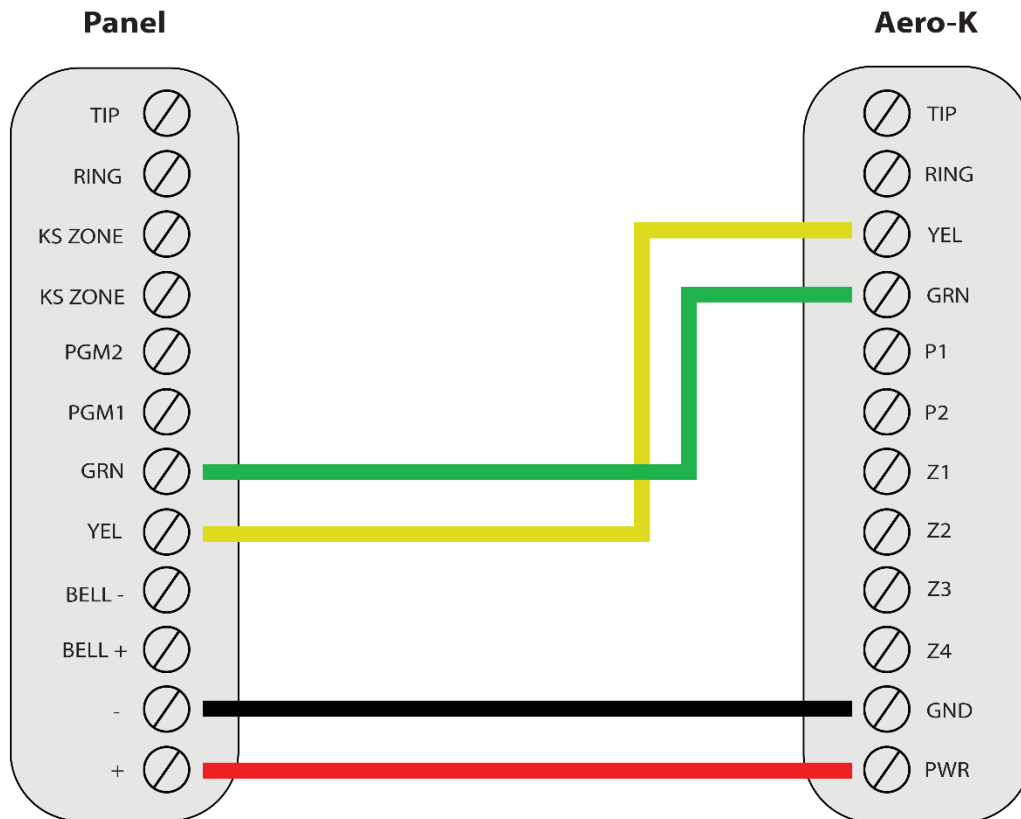
V1.7

Firmware V1.0

Contents

1. Keybus Monitoring

Honeywell alarm panels can be connected to Aero-K via keybus to monitor and control your system remotely.

a. Wiring Diagram

Panel   **Aero-K**

Panel	Aero-K
TIP	TIP
RING	RING
KS ZONE	YEL
KS ZONE	GRN
PGM2	P1
PGM1	P2
GRN	Z1
YEL	Z2
BELL -	Z3
BELL +	Z4
-	GND
+	PWR

Colours are for demonstration purposes only

b. Programming Instructions

Keybus-compatible Honeywell alarm panels:

Vista 10P, Vista 15P, Vista 20P, Vista 21iP, Vista 48LA, Vista 32FB/128FBP, Vista 128BP/250BP/128 SIA, Safewatch Pro2000, Safewatch Pro 3000

Once the below programming is done, go to Dealer's account on Aryo cloud. In "Panel Config" section, "Honeywell Configurations", press "Edit". Then, click on "Retrieve Panel Information" to set the configurations automatically.
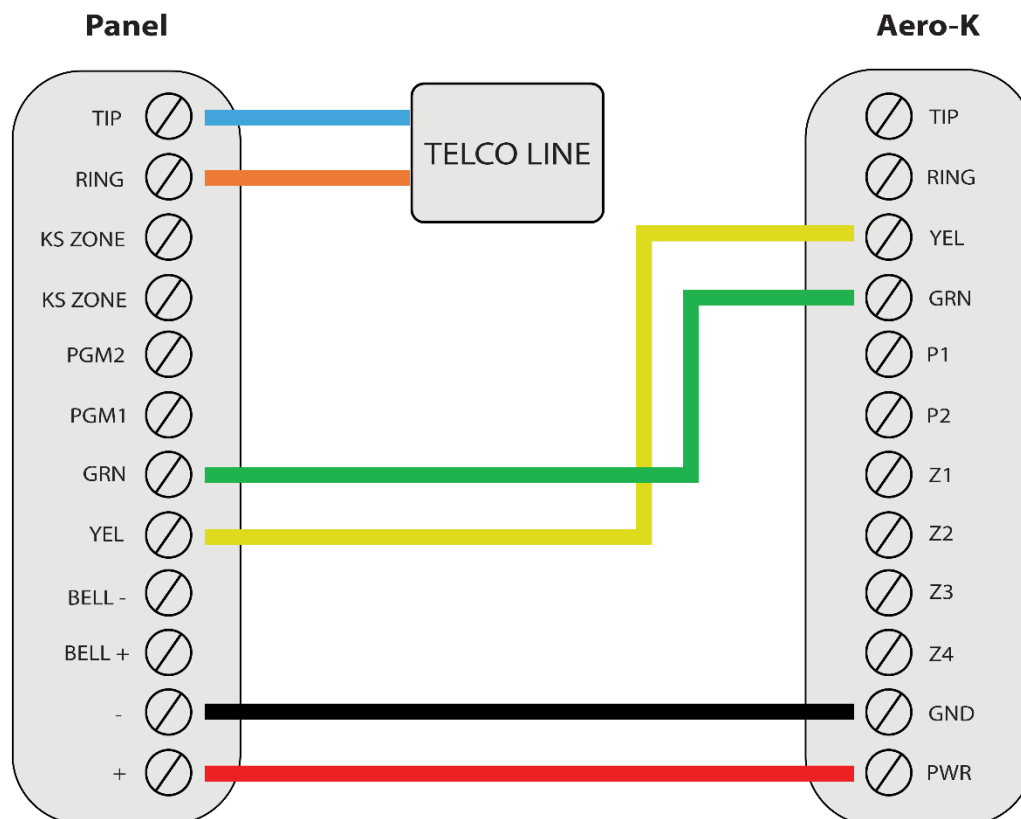
i. Vista 10P/15P/20P/21iP

Section	Description	Vista-10P	Vista-15P	Vista-20P	Vista-21iP
*23	Enter 1 for each entry to enable quick bypass.	O	O	O	O
*29	Enter 1* to enable long range radio.	O	O	O	O
*41	Enter * and ensure no number is registered.	O	O	O	O
*48	Enter 7 to set the communication format to CID for each entry.	O	O	O	O
*49	Enter 0 to set Split/Dual Report all to primary.	O	O	O	O
*50	Enter 0 for dialer delay.	O	O	O	O
*55	Enter 1 to give the priority to the long-range radio.	O	O	O	O
*61	Enter 1 0 to enable bypass report code.	O	O	O	O
*64	Enter 1 for each entry to enable test report.	O	O	O	O
*65	Enter 1 1 0 (if applicable) to enable open reporting and disable reporting for the common partition.	O	O	O	O
*66	Enter 1 1 1 1 0 0 (if applicable) to enable close reporting and disable reporting for the common partition.	O	O	O	O
*70	Enter 1 for each entry to enable alarm restore reporting.	O	O	O	O
*91	Enter 0 0 for RIS (Remote Interactive Services).		O	O	O
*92	Enter 0,0 to disable Telco Monitoring.		O	O	O
*189	Enter 1 for the second entry, to enable AUI2.		O	O	O
*190 (partition 2)	Enter 20 to set Keypad 2 at address 17 to partition 2.			O	O
*191-196 (partition 1)	Enter 10 to set Keypad 7 to partition 1.	O	O	O	O

*191-196 (partition 2)	Enter 20 to set Keypad 8 to partition 2.			O	O
*198	Enter 1 to display partition number.			O	O
*99	To exit programming.	O	O	O	O
Internal IP/GSM Jumper	Set the jumper to off setting to disable Internal IP communicator.				O

2. Keybus & Digital Account Monitoring

Honeywell panels can be connected to Aero-K via keybus alongside an existing digital account to monitor and control your system remotely.

a. Wiring Diagram

Colours are for demonstration purposes only

b. Programming Instructions

If your Honeywell alarm panel is connected to an external phone line with a digital account, connect the Aero-K device using the 4-wire keybus configuration above, and follow the programming instructions described here.

Once the below programming is done, go to Dealer's account on Aryo cloud. In "Panel Config" section, "Honeywell Configurations", press "Edit". Then, click on "Retrieve Panel Information" to set the configurations automatically.

i. Vista 10P/15P/20P/21iP

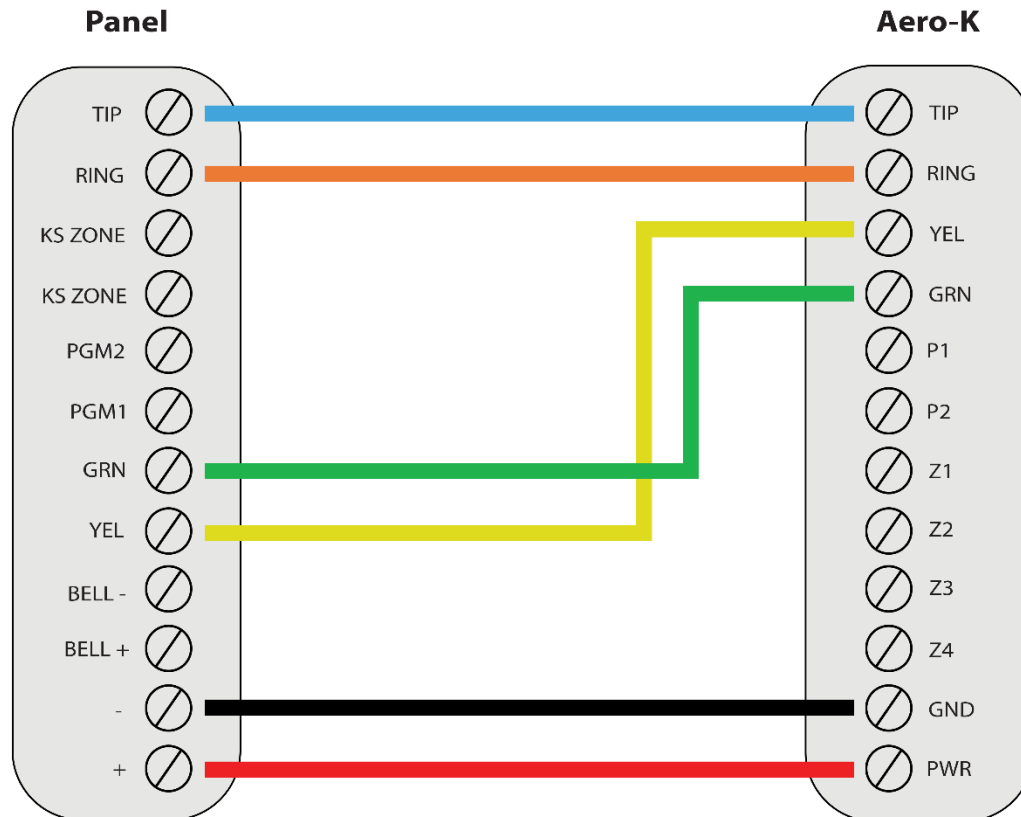| Section	Description	Vista-10P	Vista-15P	Vista-20P	Vista-21iP
*23	Enter 1 for each entry to enable quick bypass.	O	O	O	O
*29	Enter 1* to enable long range radio.	O	O	O	O
*41	Enter * and ensure no number is registered.	O	O	O	O
*48	Enter 7 to set the communication format to CID for each entry.	O	O	O	O
*49	Enter 0 to set Split/Dual Report all to primary.	O	O	O	O
*50	Enter 0 for dialer delay.	O	O	O	O
*55	Enter 1 to give the priority to the long-range radio.	O	O	O	O
*61	Enter 1 0 to enable bypass report code.	O	O	O	O
*64	Enter 1 for each entry to enable test report.	O	O	O	O
*65	Enter 1 1 0 (if applicable) to enable open reporting and disable reporting for the common partition.	O	O	O	O
*66	Enter 1 1 1 1 0 0 (if applicable) to enable close reporting and disable reporting for the common partition.	O	O	O	O
*70	Enter 1 for each entry to enable alarm restore reporting.	O	O	O	O
*91	Enter 0 0 for RIS (Remote Interactive Services).		O	O	O
*92	Enter 0,0 to disable Telco Monitoring.		O	O	O
*189	Enter 1 for the second entry, to enable AUI2.		O	O	O

*190 (partition 2)	Enter 20 to set Keypad 2 at address 17 to partition 2.			O	O
*191-196 (partition 1)	Enter 10 to set Keypad 7 to partition 1.	O	O	O	O
*191-196 (partition 2)	Enter 20 to set Keypad 8 to partition 2.			O	O
*198	Enter 1 to display partition number.			O	O
*99	To exit programming.	O	O	O	O
Internal IP/GSM Jumper	Set the jumper to off setting to disable Internal IP communicator.				O

3. Keybus & Dial Capture (Tip/Ring)

Some Honeywell panels connected to keybus may also need to be connected to Tip/Ring for dial capture monitoring. Wiring and programming instructions are described below.

a. Wiring Diagram

i. Vista 50P

Panel   **Aero-K**

Panel		Aero-K
TIP		TIP
RING		RING
KS ZONE		YEL
KS ZONE		GRN
PGM2		P1
PGM1		P2
GRN		Z1
YEL		Z2
BELL -		Z3
BELL +		Z4
-		GND
+		PWR

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b. Programming Instructions

i. Vista 50P

Section	Description
*32	Enter a system account number.
*33	Enter any phone number.
*45	Set the report format to 1 for CID.
*79-*80	Enter 1 to enable alarm restore reporting for all zone types.
*81	Enter 1 to for both open and close reports.

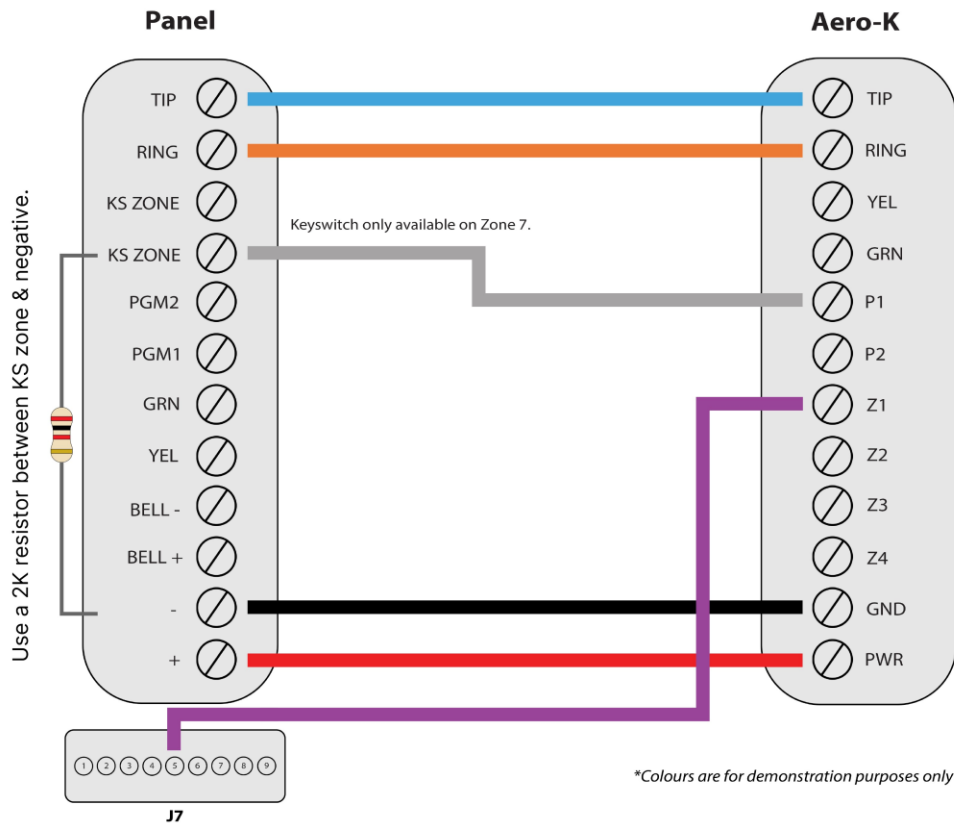# 4. Dial Capture (Tip/Ring) Monitoring & Keyswitch

For Honeywell alarm panels that do not support keybus, use Tip/Ring and keyswitch to monitor and control your system remotely.

After installation, for proper partition mapping onto Aryo cloud and keyswitch arming, follow the instructions below:

- *Partition mapping*: Operate on the alarm panel and send signals from <u>each</u> partition. Then, wait for the corresponding event on Aryo cloud, before initiating the next signal.

- *Keyswitch arming*: Enable keyswitch arming for the intended partitions via Aryo cloud settings. Arm/disarm <u>each</u> partition (if applicable) from the user app. Then, wait for confirmation events on Aryo cloud before initiating subsequent actions.

a. Wiring Diagram
i. Vista 40

b. Programming Instructions

To monitor Honeywell alarm panels with dial capture, program your system as described below. Instructions in *italics* are for optional remote arming with keyswitch. PGMs on Aero-K can be connected to any zone programmed as keyswitch for remote arming functionality.

i. Vista 40

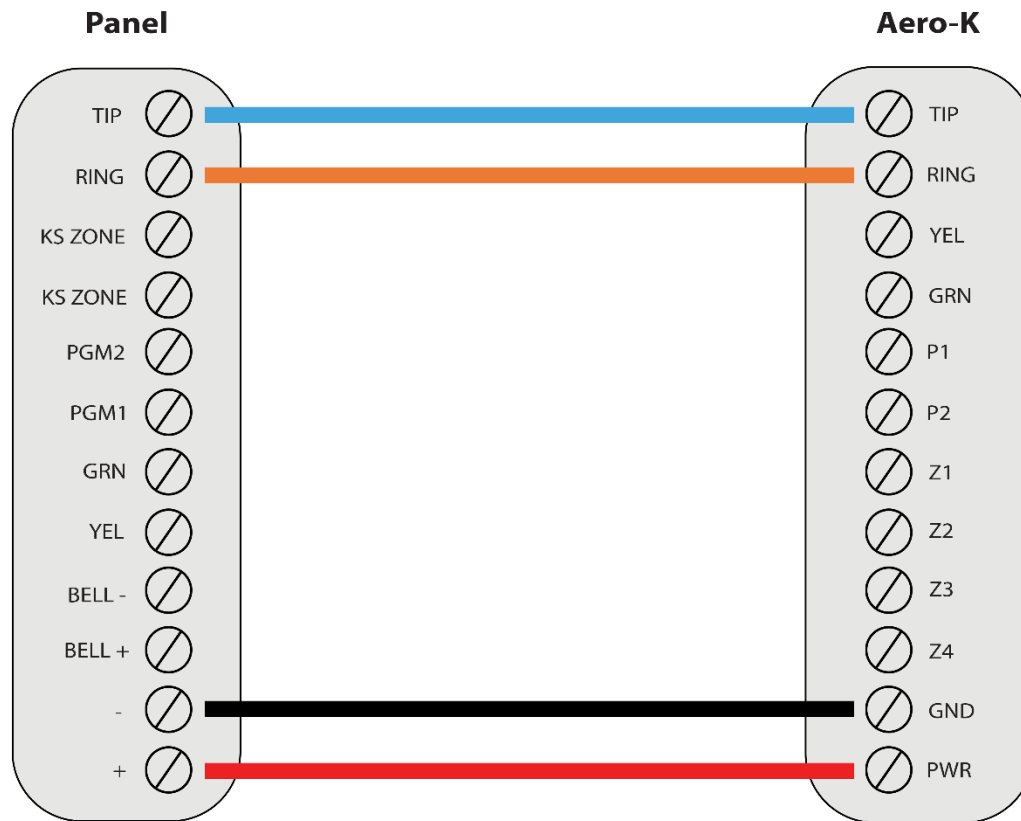| Section	Description
*32	Enter a system account number.
*33	Enter any phone number.
*45	Set the report format to 1 for CID.
*54	Enter 11 to enable reporting for all zones in partition 1.
*79-*80	Enter 1 to enable alarm restore reporting for all zone types.
*81	Enter 11 to for both open and close reports
*15	*Enter 1 to enable keyswitch for partition 1.*
*40	*Enter 1 to enable open/close reporting for keyswitch.*
1*46	*Set Out 1 function to 1 for keyswitch armed status monitoring.*
2*20	*Enter 1 to enable J7 triggers.*

5. Dial Capture (Tip/Ring) Monitoring

For Honeywell alarm panels that do not support keyswitch, use Tip/Ring to monitor your system remotely.

To accurately map alarm panel partitions onto Aryo cloud, operate on the alarm panel and send signals from <u>each</u> partition. Then, wait for the corresponding event on Aryo cloud, before initiating the next signal.

a. Wiring Diagram

i. FA162C, Vista 10/10SE/15/15SE/VIA30, FA147C/148C, LYNX 5100/5210

Panel

Aero-K

Panel		Aero-K
TIP	————	TIP
RING	————	RING
KS ZONE		YEL
KS ZONE		GRN
PGM2		P1
PGM1		P2
GRN		Z1
YEL		Z2
BELL -		Z3
BELL +		Z4
-	————	GND
+	————	PWR

Colours are for demonstration purposes only

b. Programming Instructions

To monitor Honeywell alarm panels with dial capture, program your system as described below.

i. FA162C

Section	Description
*41	Enter any phone number.
*43	Enter an account number for the panel.
*48	Set the report format to 7 for CID reporting.
*65-66	Enter 1 in each entry to enable open/close reporting.
*70	Enter 1 to enable alarm restore reporting.

ii. Vista 10/10SE, VIA30, FA147C/148C

Section	Description
*41	Enter any phone number.
*43	Enter an account number for the panel.
*46	Set the report format to 07 for CID reporting.
*65-66	Enter 1 in each entry to enable open/close reporting.
*70	Enter 1 to enable alarm restore reporting.

iii. Vista 15/15SE

Section	Description
*41	Enter any phone number.
*43	Enter an account number for the panel.
*46	Set the report format to 07 for CID reporting.
*65-66	Enter 1 in each entry to enable open/close reporting.
*70	Enter 1 to enable alarm restore reporting.
*92	Set to 0 to disable TLM.

iv. LYNX 5100/5210

Section	Description
Reporter – Primary CS Info – Phone type	Set to CID 4 digit or SIA.
Reporter – Primary CS Info – Phone Number	Enter any phone number.
Reporter – Primary CS Info – Account Number	Enter an account number for the panel.
Reporter – Primary CS Info – Report Alarms	Enable alarm reporting.
Reporter – Primary CS Info – Report Open/Close	Enable open/close reporting.
Reporter – Report Selection	Enable open/close and alarm/restore reporting.