SIA Alarm Mapping (Concord 3.1)

Upper Sensors

Sensor Name or Type	SIA Data Code and short description	Address Field
Touchpad Tamper	JA - User Code Tamper	Bus Dev NumBus
Touchpad Tamper Restore	JP – User on Premises	Dev NumBus Dev
Bus Device Not Heard	ET – Expansion Trouble	NumBus Dev Num
Automation Device Not Responding	ET – Expansion Trouble	
Bus Module Tamper	ET – Expansion Trouble	Bus Dev Num
Bus Module Tamper Restore	ET – Expansion Restore	Bus Dev Num
Energy Saver Temp < Freeze Limit	ZA - Freeze Alarm	00
Alarm is canceled	ZH - Freeze Alarm Restore	00
Temp. Data not received from ES	ZT - Freeze Trouble	00
Temp. > Freeze Limit + 5	ZR - Freeze Trouble Restore	00
No Activity	NA – No Activity	00
Alarm Canceled	NS – Activity Resumed	00
Touchpad Fire Panic	FA - Fire Alarm	Bus Dev Num
Alarm Canceled	FH - Fire Alarm Restore	Bus Dev Num
Touchpad Police Panic	PA - Burglary Alarm	Bus Dev Num
Alarm Canceled	PH - Burglary Alarm Restore	Bus Dev Num
Touchpad Auxiliary Panic	MA - Panic Alarm	Bus Dev Num
Alarm Canceled	MH – Panic Alarm Restore	Bus Dev Num
Manual Phone Test	RX - Manual Test	User
Opening Report	OP - Opening Report	User or Zone
Closing Report	CL - Closing Report	User or Zone
Duress Alarm	HA - Holdup Alarm	Bus Dev Num
Force Armed	CF - Forced Closing	User
Auto Force Arm	CF – Forced Closing	User
Wireless Touchpad Low Battery	XT - Transmitter Battery Trouble	Zone
Wireless Touchpad Supervisory	US - Untyped Zone Supervisory	Zone
Wireless Touchpad LB Restore	XR – Untyped Zone Restoral	Zone
AC Power Failure	AT - AC Trouble	00
AC Power Restored	AR - AC Restoral	00
Low Panel Battery	YT - System Battery Trouble	00
Low Panel Battery Restored	YR - System Battery Restoral	00
Panel Tamper	TA - Tamper Alarm	00
Panel Tamper Restore	TR – Tamper Restore	00
Automatic Phone Test	RP - Automatic Test	00
Receiver Jammed	XQ - RF Interference	00
Receiver Supervisory	XS – RF Receiver Tamper	00
Antenna Tamper	XS – Antenna Tamper	Bus Dev Num
Antenna Tamper Restore	XR – Antenna Tamper Restore	Bus Dev Num
Panel Back in Service	RR - Power Up	00
Phone Failure	YC – Communications Fail	00
Phone Line Back Up [Not sent]	YK – Communications Restoral	00
Phone Trouble	LT – Phone Line Trouble	00
Phone Line Restore	LR – Phone Line Restore	00
Late to Close	CJ – Late Close	User
Late to Open	OJ – Late Open	User
Early to Close	CK – Early Close	User
Early to Open	OK – Early Open	User
Fail to Close	CI – Fail to Close	00
Fail to Open	OI – Fail to Open	00
Events Report	JL - Log Threshold	00
Entering Sensor Test	TS - Test Start	User
Exiting Sensor Test	TE - Test End	User
Recent Closing	CR - Recent Closing	User
Exit Error	EE – Exit Error	User
Two Trip Error	XM - Missing Alarm, Cross Point	Zone

Entering Installer Programming	LB – Local Programming Begun	00
Exiting Installer Programming	LX – Local Programming Ended	00
Cellular Backup Failure	YC – Communications Fail	00
Cellular Backup Restoral	YK – Communications Restoral	00
Smoke Detector Reset	FR – Fire Restoral	00

Special Reports for AVM

Mode Activated	SIA Message Sent	Address Field
Instant	L*nnn* (*nnn* is seconds of access timeout)	N/A
Callback	AUDIO CALLBACK!!	N/A

Normal Sensors

The 1St digit is dependent on the zones group number. The groups are classified as shown below.

Sensor Groups	SIA Reporting Category	1st Data Code
00 - 03	Panic	P
04 - 07	Emergency	Q
08 - 20	Burglary	B
21 – 25	[Non-Reporting Groups]	Not Applicable
26	Fire	F
27 – 28	[Non-Reporting Groups]	Not Applicable
29	Freeze	Z
32	[Non-Reporting Group]	Not Applicable
33	Untyped (RF Siren)	U
34	Gas (CO)	G
35	Burglary (Day Zone)	B

The 2nd digit is dependent on the report classification.

Report Classification	2nd Data Code
Alarm	A
Bypass	B
Alarm Cancel	H
Trouble Restore	J
Restoral	R
Supervisory	S
Trouble	T
Unbypass	U

Tampers are reported as a 'TA' (tamper alarm) when system is armed or if 24 hour tamper is set. Otherwise tampers are not reported (just like UG). Low batteries are reported as 'XT'/'XR' (transmitter battery trouble/transmitter battery restoral). Exit Faults are reported as 'EE, user' (Exit Error), plus BA,zone (Burg. Alarm). These are three special cases where normal sensors are not reported according to their sensor group. A zone number is always included in a normal sensor.

Zone Definitions

Zone Type	Zone Number Range
System Zone	00
Normal Sensor Zones	01...99
Bus Zones	500...595
TP AUX PANIC*	597
TP POLICE PANIC*	598
TP FIRE PANIC*	599
User Zones	600...855
Miscellaneous Zones	900…999

* - affected by setting of TP PANIC RPT FMT (Reporting/Global)

Miscellaneous Zones Definitions

Miscellaneous Zone Number	Miscellaneous Zone Type
900	Premise Phone
901	During Phone Conversation
902	Remote Access
906	Auto Stay Arming
907	Automation Module
908	Keyswitch Arming Zone
909	Reboot or other CPU Function

Note: Shaded items are not reported by Concord 3.1

Examples

'Police Panic 502' – This would be a touchpad panic at bus address two.
'Opening 001' – This would be an opening by a keyfob/rftp learned as sensor zone one.[1]
'Police Panic 002' – This would be a touchpad panic by RF touchpad sensor number two.
'Police Panic 598' --- This would be a touchpad panic from any source with TP PANIC RPT FMT = 1
[1] – We know that it is a keyfob due to its ability to arm/disarm. Keyswitch arming is sent as a miscellaneous source.