

Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications

Appendix A – Code Definitions *(This appendix contains binding information to be used for implementation.)*

Table 4: Control Block Data Code Definitions

Data Code	Description	Notes
LK	Kill Listen-in	automation has requested the receiver to end listen-in
LN	Switch Listen-in	a request by automation to switch the card currently in listen-in
OP	Output Pulse	$x*y$ toggle output x for y seconds
OR	Output Relay	$x*y$ set output x to y (1 = ON, 0 = OFF)
SA	Set Area	$x*y$ set area x to y , (3 = User Defined, 2 = Perimeter Only, 1 = Armed, 0 = Disarmed)
SB	Set Bypass	$x*y$ set bypass on zone x to y (1 = ON, 0 = OFF)
SS	Set Sounder	$x*y$ set sounder x to y (1 = ON, 0 = OFF)
SW	Set Warning	$*y$ set warning x to y (1 = ON, 0 = OFF)
TC	Trap Cancel	disable previous Trap Account Command
TP	Trap Account	for remote programming

Table 5: Program Block Data Code Definitions

Data Code	Short Description	Long Description	Notes
AA	Auto Arm	$x*y$ arm area x at y weekly minutes	
AD	Auto Disarm	$x*y$ disarm area x at y weekly minutes	
CA	Close After	$x*y$ close area x after y weekly mins or ETC	Early To Close event
CB	Close Before	$x*y$ close area x before y weekly mins or LTC	Late To Close event
CX	Close Delete	$x*y$ removes close mins y for area x	parameter y may be omitted to specify all times; parameters x and y may be omitted to specify all areas and times
DS	Daylight Saving	$x*y$ first (x) and Last (y) days of DST	
EI	Entry Delay	$x*y$ set area x entry delay to y seconds	
EO	Exit Delay	$x*y$ set area x exit delay to y seconds	
OA	Open After	$x*y$ open area x after y weekly mins or ETO	Early To Open event
OB	Open Before	$x*y$ open area x before y weekly mins or LTO	Late To Open event
OX	Open Delete	$x*y$ removes open mins y for area x	parameter y may be omitted to specify all times; parameters x and y may be omitted to specify all areas and times
PH	Phone Number	$x*y$ phone number (y) for Station x	
RT	Current Transmitter Time	$x*y$ where x is weekly mins, y is day of year	The panel may choose to ignore x or y if not applicable.
RO	GMT Offset	$x.z*y$ where $x.z$ is hours from GMT and y DST observed (1 = NO, 0 = YES)	This information must be supplied by the transmitter in the configuration block if a time stamp is desired.
TI	Test Interval	$x*y$ set station x interval to y hours	
TT	Test Time	$x*y$ test to station x in y minutes	
UC	User Code	$x*y$ new user code y for user x	
UX	User Code Delete	$x*y$ remove user code y for user x	Parameter y may be included to ensure deletion only if a match to the current contents occurs.

Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications

Appendix A – Code Definitions *(This appendix contains binding information to be used for implementation.)*

Table 6: Event Block Data Code Definitions (table update level: a)

Data Code	Short Description	Long Description	Address Field
AA	Alarm – Panel Substitution	An attempt to substitute an alternate alarm panel for a secure panel has been made	Condition number
AB	Abort	An event message was not sent due to User action	zone or point
AN	Analog Restoral	An analog fire sensor has been restored to normal operation	zone or point
AR	AC Restoral	AC power has been restored	unused
AS	Analog Service	An analog fire sensor needs to be cleaned or calibrated	zone or point
AT	AC Trouble	AC power has been failed	unused
BA	Burglary Alarm	burglary zone has been violated while armed	zone or point
BB	Burglary Bypass	burglary zone has been bypassed	zone or point
BC	Burglary Cancel	alarm has been cancelled by authorized user	user number
BD	Swinger Trouble	A non-fire zone has been violated after a Swinger Shutdown on the zone	zone or point
BE	Swinger Trouble Restore	A non-fire zone restores to normal from a Swinger Trouble state	zone or point
BG	Unverified Event - Burglary	A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal	zone or point
BH	Burglary Alarm Restore	alarm condition eliminated	zone or point
BJ	Burglary Trouble Restore	trouble condition eliminated	zone or point
BM	Burglary Alarm - Cross Point	burglary alarm w/cross point also in alarm - alarm verified	zone or point
BR	Burglary Restoral	alarm/trouble condition has been eliminated	zone or point
BS	Burglary Supervisory	unsafe intrusion detection system condition	zone or point
BT	Burglary Trouble	burglary zone disabled by fault	zone or point
BU	Burglary Unbypass	zone bypass has been removed	zone or point
BV	Burglary Verified	A burglary alarm has occurred and been verified within programmed conditions. (zone or point not sent)	area number
BX	Burglary Test	burglary zone activated during testing	zone or point
BZ	Missing Supervision	A non-fire Supervisory point has gone missing	zone or point
CA	Automatic Closing	system armed automatically	area number
CD	Closing Delinquent	the system has not been armed for a programmed amount of time	area number
CE	Closing Extend	extend closing time	user number
CF	Forced Closing	system armed, some zones not ready	user number
CG	Close Area	system has been partially armed	area number
CI	Fail to Close	an area has not been armed at the end of the closing window	area number
CJ	Late Close	an area was armed after the closing window	user number
CK	Early Close	an area was armed before the closing window	user number
CL	Closing Report	system armed, normal	user number
CM	Missing Alarm - Recent Closing	a point has gone missing within 2 minutes of closing	zone or point
CO	Command Sent	A command has been sent to an expansion/peripheral device	Condition number
CP	Automatic Closing	system armed automatically	user number
CQ	Remote Closing	The system was armed from a remote location	User number
CR	Recent Closing	an alarm occurred within five minutes after the system was closed	user number
CS	Closing Keyswitch	account has been armed by keyswitch	zone or point
CT	Late to Open	system was not disarmed on time	area number
CW	Was Force Armed	header for a force armed session, forced point msgs may follow	area number
CX	Custom Function Executed	The panel has executed a preprogrammed set of instructions	Custom Function number
CZ	Point Closing	a point, as opposed to a whole area or account, has closed	zone or point
DA	Card Assigned	An access ID has been added to the controller	user number
DB	Card Deleted	An access ID has been deleted from the controller	user number
DC	Access Closed	access to all users prohibited	door number
DD	Access Denied	access denied, unknown code	door number
DE	Request to Enter	An access point was opened via a Request to Enter device	door number

Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications

Appendix A – Code Definitions *(This appendix contains binding information to be used for implementation.)*

Data Code	Short Description	Long Description	Address Field
DF	Door Forced	door opened without access request	door number
DG	Access Granted	door access granted	door number
DH	Door Left Open - Restoral	An access point in a Door Left Open state has restored	door number
DI	Access Denied – Passback	Access denied because credential has not exited area before attempting to re-enter same area	Door number
DJ	Door Forced - Trouble	An access point has been forced open in an unarmed area	door number
DK	Access Lockout	access denied, known code	door number
DL	Door Left Open - Alarm	An open access point when open time expired in an armed area	door number
DM	Door Left Open - Trouble	An open access point when open time expired in an unarmed area	door number
DN	Door Left Open (non-alarm, non-trouble)	A access point was open when the door cycle time expired	door number
DO	Access Open	access to authorized users allowed	door number
DP	Access Denied - Unauthorized Time	An access request was denied because the request is occurring outside the users authorized time window(s)	door number
DQ	Access Denied Unauthorized Arming State	An access request was denied because the user was not authorized in this area when the area was armed	door number
DR	Door Restoral	access alarm/trouble condition eliminated	door number
DS	Door Station	identifies door for next report	door number
DT	Access Trouble	access system trouble	unused
DU	Dealer ID	dealer ID number	dealer ID
DV	Access Denied Unauthorized Entry Level	An access request was denied because the user is not authorized in this area	door number
DW	Access Denied - Interlock	An access request was denied because the doors associated Interlock point is open	door number
DX	Request to Exit	An access point was opened via a Request to Exit device	door number
DY	Door Locked	The door’s lock has been engaged	door number
DZ	Access Denied - Door Secured	An access request was denied because the door has been placed in an Access Closed state	door number
EA	Exit Alarm	an exit zone remained violated at the end of the exit delay period	zone or point
EE	Exit Error	an exit zone remained violated at the end of the exit delay period	user number
EJ	Expansion Tamper Restore	Expansion device tamper restoral	Expansion device number
EM	Expansion Device Missing	Expansion device missing	Expansion device number
EN	Expansion Missing Restore	Expansion device communications re-established	Expansion device number
ER	Expansion Restoral	expansion device trouble eliminated	expander number
ES	Expansion Device Tamper	Expansion device enclosure tamper	Expansion device number
ET	Expansion Trouble	expansion device trouble	expander number
EX	External Device Condition	A specific reportable condition is detected on an external device	device number
EZ	Missing Alarm - Exit Error	A point remained missing at the end of the exit delay period	point number
FA	Fire Alarm	fire condition detected	zone or point
FB	Fire Bypass	zone has been bypassed	zone or point
FC	Fire Cancel	A Fire Alarm has been canceled by an authorized person	zone or point
FG	Unverified Event – Fire	A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal	Zone or point
FH	Fire Alarm Restore	alarm condition eliminated	zone or point
FI	Fire Test Begin	the transmitter area’s fire test has begun	area number
FJ	Fire Trouble Restore	trouble condition eliminated	zone or point
FK	Fire Test End	the transmitter area’s fire test has ended	area number
FL	Fire Alarm Silenced	The fire panel’s sounder was silenced by command	Zone or point
FM	Fire Alarm - Cross Point	Fire Alarm with Cross Point also in alarm verifying the Fire Alarm	point number
FQ	Fire Supervisory Trouble Restore	A fire supervisory zone that was in trouble condition has now restored to normal	Zone or point
FR	Fire Restoral	alarm/trouble condition has been eliminated	zone or point

Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications

Appendix A – Code Definitions *(This appendix contains binding information to be used for implementation.)*

Data Code	Short Description	Long Description	Address Field
FS	Fire Supervisory	unsafe fire detection system condition	zone or point
FT	Fire Trouble	zone disabled by fault	zone or point
FU	Fire Unbypass	bypass has been removed	zone or point
FV	Fire Supervision Restore	A fire supervision zone that was in alarm has restored to normal	Zone or point
FW	Fire Supervisory Trouble	A fire supervisory zone is now in a trouble condition	Zone or point
FX	Fire Test	fire zone activated during test	zone or point
FY	Missing Fire Trouble	an fire point is now logically missing	zone or point
FZ	Missing Fire Supervision	A Fire Supervisory point has gone missing	zone or point
GA	Gas Alarm	gas alarm condition detected	zone or point
GB	Gas Bypass	zone has been bypassed	zone or point
GH	Gas Alarm Restore	alarm condition eliminated	zone or point
GJ	Gas Trouble Restore	trouble condition eliminated	zone or point
GR	Gas Restoral	alarm/trouble condition has been eliminated	zone or point
GS	Gas Supervisory	unsafe gas detection system condition	zone or point
GT	Gas Trouble	zone disabled by fault	zone or point
GU	Gas Unbypass	bypass has been removed	zone or point
GX	Gas Test	zone activated during test	zone or point
HA	Holdup Alarm	silent alarm, user under duress	zone or point
HB	Holdup Bypass	zone has been bypassed	zone or point
HH	Holdup Alarm Restore	alarm condition eliminated	zone or point
HJ	Holdup Trouble Restore	trouble condition eliminated	zone or point
HR	Holdup Restoral	alarm/trouble condition has been eliminated	zone or point
HS	Holdup Supervisory	unsafe holdup system condition	zone or point
HT	Holdup Trouble	zone disabled by fault	zone or point
HU	Holdup Unbypass	bypass has been removed	zone or point
IA	Equipment Failure Condition	A specific, reportable condition is detected on a device	point number
IR	Equipment Fail - Restoral	The equipment condition has been restored to normal	point number
JA	User Code Tamper	too many unsuccessful attempts have been made to enter a user ID	area number
JD	Date Changed	the date was changed in the transmitter/receiver	user number
JH	Holiday Changed	the transmitter's holiday schedule has been changed	user number
JK	Latchkey Alert	A designated user passcode has not been entered during a scheduled time window	user number
JL	Log Threshold	the transmitter's log memory has reached its threshold level	unused
JO	Log Overflow	the transmitter's log memory has overflowed	unused
JP	User On Premises	A designated user passcode has been used to disarm or gain access	user number
JR	Schedule Executed	an automatic scheduled event was executed	area number
JS	Schedule Changed	an automatic schedule was changed	user number
JT	Time Changed	the time was changed in the transmitter/receiver	user number
JV	User Code Changed	a user's code has been changed	user number
JX	User Code Deleted	a user's code has been removed	user number
JY	User Code Added	A user's code has been added	user number
JZ	User Level Set	A user's authority level has been set	user number
KA	Heat Alarm	high temperature detected on premise	zone or point
KB	Heat Bypass	zone has been bypassed	zone or point
KH	Heat Alarm Restore	alarm condition eliminated	zone or point
KJ	Heat Trouble Restore	trouble condition eliminated	zone or point
KR	Heat Restoral	alarm/trouble condition has been eliminated	zone or point
KS	Heat Supervisory	unsafe heat detection system condition	zone or point
KT	Heat Trouble	zone disabled by fault	zone or point
KU	Heat Unbypass	bypass has been removed	zone or point
LB	Local Program	begin local programming begin	unused
LD	Local Program Denied	access code incorrect	unused
LE	Listen-in Ended	the listen-in session has been terminated	unused
LF	Listen-in Begin	the listen-in session with the receiver has begun	unused
LR	Phone Line Restoral	phone line restored to service	line number
LS	Local Program Success	local programming successful	unused

SIA DC-03-1990.01 (R2000.11) © Security Industry Association

Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications

Appendix A – Code Definitions *(This appendix contains binding information to be used for implementation.)*

Data Code	Short Description	Long Description	Address Field
LT	Phone Line Trouble	phone line trouble report	line number
LU	Local Program Fail	local programming unsuccessful	unused
LX	Local Programming Ended	a local programming session has been terminated	unused
MA	Medical Alarm	emergency assistance request	zone or point
MB	Medical Bypass	zone has been bypassed	zone or point
MH	Medical Alarm Restore	alarm condition eliminated	zone or point
MI	Message	A canned message is being sent	Message number
MJ	Medical Trouble Restore	trouble condition eliminated	zone or point
MR	Medical Restoral	alarm/trouble condition has been eliminated	zone or point
MS	Medical Supervisory	unsafe system condition exists	zone or point
MT	Medical Trouble	zone disabled by fault	zone or point
MU	Medical Unbypass	bypass has been removed	zone or point
NA	No Activity	there has been no zone activity for a programmed amount of time	zone number
NC	Network Condition	A communications network has a specific reportable condition	network number
NF	Forced Perimeter Arm	some zones/points not ready	area number
NL	Perimeter Armed	an area has been perimeter armed	area number
NM	Perimeter Armed, User Defined	A user defined area has been perimeter armed	Area number
NR	Network Restoral	A communications network has returned to normal operation	network number
NS	Activity Resumed	A zone has detected activity after an alert	zone number
NT	Network Failure	A communications network has failed	network number
OA	Automatic Opening	system has disarmed automatically	area number
OC	Cancel Report	untyped zone cancel	user number
OG	Open Area	system has been partially disarmed	area number
OH	Early to Open from Alarm	an area in alarm was disarmed before the opening window	user number
OI	Fail to Open	an area has not been armed at the end of the opening window	area number
OJ	Late Open	an area was disarmed after the opening window	user number
OK	Early Open	an area was disarmed before the opening window	user number
OL	Late to Open from Alarm	an area in alarm was disarmed after the opening window	user number
OP	Opening Report	account was disarmed	user number
OQ	Remote Opening	The system was disarmed from a remote location	User number
OR	Disarm From Alarm	account in alarm was reset/disarmed	user number
OS	Opening Keyswitch	account has been disarmed by keyswitch	zone or point
OT	Late To Close	system was not armed on time	user number
OU	Output State – Trouble	An output on a peripheral device or NAC is not functioning	Output number
OV	Output State – Restore	An output on a peripheral device or NAC is back to normal operation	Output number
OZ	Point Opening	a point, rather than a full area or account, disarmed	zone or point
PA	Panic Alarm	emergency assistance request, manually activated	zone or point
PB	Panic Bypass	panic zone has been bypassed	zone or point
PH	Panic Alarm Restore	alarm condition eliminated	zone or point
PJ	Panic Trouble Restore	trouble condition eliminated	zone or point
PR	Panic Restoral	alarm/trouble condition has been eliminated	zone or point
PS	Panic Supervisory	unsafe system condition exists	zone or point
PT	Panic Trouble	zone disabled by fault	zone or point
PU	Panic Unbypass	panic zone bypass has been removed	zone or point
QA	Emergency Alarm	emergency assistance request	zone or point
QB	Emergency Bypass	zone has been bypassed	zone or point
QH	Emergency Alarm Restore	alarm condition has been eliminated	zone or point
QJ	Emergency Trouble	trouble condition has been eliminated	zone or point
QR	Emergency Restoral	alarm/trouble condition has been eliminated	zone or point
QS	Emergency Supervisory	unsafe system condition exists	zone or point
QT	Emergency Trouble	zone disabled by fault	zone or point
QU	Emergency Unbypass	bypass has been removed	zone or point
RA	Remote Programmer Call Failed	transmitter failed to communicate with the remote programmer	unused
RB	Remote Program Begin	remote programming session initiated	unused

Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications

Appendix A – Code Definitions *(This appendix contains binding information to be used for implementation.)*

Data Code	Short Description	Long Description	Address Field
RC	Relay Close	a relay has energized	relay number
RD	Remote Program Denied	access passcode incorrect	unused
RN	Remote Reset	a transmitter was reset via a remote programmer	unused
RO	Relay Open	a relay has de-energized	relay number
RP	Automatic Test	automatic communication test report	unused
RR	Power Up	system lost power, is now restored	unused
RS	Remote Program Success	remote programming successful	unused
RT	Data Lost	dialer data lost, transmission error	line number
RU	Remote Program Fail	remote programming unsuccessful	unused
RX	Manual Test	manual communication test report	user number
RY	Test Off Normal	Test signal(s) indicates abnormal condition(s) exist	zone or point
SA	Sprinkler Alarm	sprinkler flow condition exists	zone or point
SB	Sprinkler Bypass	sprinkler zone has been bypassed	zone or point
SC	Change of State	An expansion/peripheral device is reporting a new condition or state change	Condition number
SH	Sprinkler Alarm Restore	alarm condition eliminated	zone or point
SJ	Sprinkler Trouble Restore	trouble condition eliminated	zone or point
SR	Sprinkler Restoral	alarm/trouble condition has been eliminated	zone or point
SS	Sprinkler Supervisory	unsafe sprinkler system condition	zone or point
ST	Sprinkler Trouble	zone disabled by fault	zone or point
SU	Sprinkler Unbypass	sprinkler zone bypass has been removed	zone or point
TA	Tamper Alarm	alarm equipment enclosure opened	zone or point
TB	Tamper Bypass	tamper detection has been bypassed	zone or point
TC	All Points Tested	All point tested	unused
TE	Test End	communicator restored to operation	unused
TH	Tamper Alarm Restore	an Expansion Device’s tamper switch restores to normal from an Alarm state	unused
TJ	Tamper Trouble Restore	An Expansion Device’s tamper switch restores to normal from a Trouble state	unused
TP	Walk Test Point	This point was tested during a Walk Test	point number
TR	Tamper Restoral	alarm equipment enclosure has been closed	zone or point
TS	Test Start	communicator taken out of operation	unused
TT	Tamper Trouble	Equipment enclosure opened in disarmed state	zone or point
TU	Tamper Unbypass	tamper detection bypass has been removed	zone or point
TW	Area Watch Start	Area watch feature has been activated	Unused
TX	Test Report	an unspecified (manual or automatic) communicator test	unused
TZ	Area Watch End	Area watch feature has been deactivated	Unused
UA	Untyped Zone Alarm	alarm condition from zone of unknown type	zone or point
UB	Untyped Zone Bypass	zone of unknown type has been bypassed	zone or point
UG	Unverified Event – Untyped	A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal	Zone or point
UH	Untyped Alarm Restore	alarm condition eliminated	zone or point
UJ	Untyped Trouble Restore	trouble condition eliminated	zone or point
UR	Untyped Zone Restoral	alarm/trouble condition eliminated from zone of unknown type	zone or point
US	Untyped Zone Supervisory	unsafe condition from zone of unknown type	zone or point
UT	Untyped Zone Trouble	trouble condition from zone of unknown type	zone or point
UU	Untyped Zone Unbypass	bypass on zone of unknown type has been removed	zone or point
UX	Undefined	an undefined alarm condition has occurred	unused
UY	Untyped Missing Trouble	a point or device which was not armed is now logically missing	zone or point
UZ	Untyped Missing Alarm	a point or device which was armed is now logically missing	zone or point
VI	Printer Paper In	transmitter or receiver paper in	printer number
VO	Printer Paper Out	transmitter or receiver paper out	printer number
VR	Printer Restore	transmitter or receiver trouble restored	printer number
VT	Printer Trouble	transmitter or receiver trouble	printer number
VX	Printer Test	transmitter or receiver test	printer number
VY	Printer Online	receiver's printer is now online	unused
VZ	Printer Offline	receiver's printer is now offline	unused
WA	Water Alarm	water detected at protected premise	zone or point

Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications

Appendix A – Code Definitions *(This appendix contains binding information to be used for implementation.)*

Data Code	Short Description	Long Description	Address Field
WB	Water Bypass	water detection has been bypassed	zone or point
WH	Water Alarm Restore	water alarm condition eliminated	zone or point
WJ	Water Trouble Restore	water trouble condition eliminated	zone or point
WR	Water Restoral	water alarm/trouble condition has been eliminated	zone or point
WS	Water Supervisory	water unsafe water detection system condition	zone or point
WT	Water Trouble	water zone disabled by fault	zone or point
WU	Water Unbypass	water detection bypass has been removed	zone or point
XA	Extra Account Report	CS Receiver has received an event from a non-existent account	unused
XE	Extra Point	panel has sensed an extra point not specified for this site	point number
XF	Extra RF Point	panel has sensed an extra RF point not specified for this site	point number
XH	RF Interference Restoral	A radio device is no longer detecting RF Interference	receiver number
XI	Sensor Reset	a user has reset a sensor	zone or point
XJ	RF Receiver Tamper Restoral	A Tamper condition at a premises RF Receiver has been restored	receiver number
XL	Low Received Signal Strength	The RF signal strength of a reported event is below minimum level	receiver number
XM	Missing Alarm - Cross Point	Missing Alarm verified by Cross Point in Alarm (or missing)	zone or point
XQ	RF Interference	A radio device is detecting RF Interference	receiver number
XR	Transmitter Battery Restoral	low battery has been corrected	zone or point
XS	RF Receiver Tamper	A Tamper condition at a premises receiver is detected	receiver number
XT	Transmitter Battery Trouble	low battery in wireless transmitter	zone or point
XW	Forced Point	a point was forced out of the system at arm time	zone or point
XX	Fail to Test	A specific test from a panel was not received	unused
YA	Bell Fault	A trouble condition has been detected on a Local Bell, Siren, or Annunciator	unused
YB	Busy Seconds	percent of time receiver's line card is on-line	line card number
YC	Communications Fail	receiver and transmitter	Unused
YD	Receiver Line Card Trouble	a line card identified by the passed address is in trouble	line card number
YE	Receiver Line Card Restored	a line card identified by the passed address is restored	line card number
YF	Parameter Checksum Fail	system data corrupted	unused
YG	Parameter Changed	a transmitter's parameters have been changed	unused
YH	Bell Restored	A trouble condition has been restored on a Local Bell, Siren, or Annunciator	unused
YI	Overcurrent Trouble	An Expansion Device has detected an overcurrent condition	unused
YJ	Overcurrent Restore	An Expansion Device has restored from an overcurrent condition	unused
YK	Communications Restoral	transmitter has resumed communication with a receiver	unused
YM	System Battery Missing	transmitter/receiver battery is missing	unused
YN	Invalid Report	transmitter has sent a packet with invalid data	unused
YO	Unknown Message	an unknown message was received from automation or the printer	unused
YP	Power Supply Trouble	transmitter/receiver has a problem with the power supply	unused
YQ	Power Supply Restored	transmitter/receiver's power supply has been restored	unused
YR	System Battery Restoral	low battery has been corrected	unused
YS	Communications Trouble	receiver and transmitter	unused
YT	System Battery Trouble	low battery in control/communicator	unused
YU	Diagnostic Error	An expansion/peripheral device is reporting a diagnostic error	Condition number
YW	Watchdog Reset	the transmitter created an internal reset	unused
YX	Service Required	a transmitter/receiver needs service	unused
YY	Status Report	this is a header for an account status report transmission	unused
YZ	Service Completed	required transmitter / receiver service completed	mfr defined
ZA	Freeze Alarm	low temperature detected at premise	zone or point
ZB	Freeze Bypass	low temperature detection has been bypassed	zone or point
ZH	Freeze Alarm Restore	alarm condition eliminated	zone or point
ZJ	Freeze Trouble Restore	trouble condition eliminated	zone or point
ZR	Freeze Restoral	alarm/trouble condition has been eliminated	zone or point
ZS	Freeze Supervisory	unsafe freeze detection system condition	zone or point

Digital Communications Standard – “SIA Format” Protocol for Alarm System Communications

Appendix A – Code Definitions *(This appendix contains binding information to be used for implementation.)*

Data Code	Short Description	Long Description	Address Field
ZT	Freeze Trouble	zone disabled by fault	zone or point
ZU	Freeze Unbypass	low temperature detection bypass removed	zone or point

Table 7: Environmental Block Data Code Definitions

Data Code	Description	Address
DA	Temperature Report	zone or point
DB	Air Flow Report	zone or point
DI	Humidity Report	zone or point
DM	Fluid Level	zone or point