



videofied™

Made by RSI VIDEO TECHNOLOGIES

INSTALLATION & PROGRAMMING MANUAL

VIDEOFIED PANELS:

XT710 GPRS

XTIP710 GPRS

XTO710



A Videofied CMA. Alphanumeric Keypad or Frontel TMTi is required for programming and maintenance



CMA701

Table of Contents

	Page
Basic Guidelines_____	3
Introduction_____	4
Initial Programming_____	5-15
Entering Badges and Access Codes_____	16-17
Choosing Siren Options_____	17
Ethernet Parameters _____	18
Disabling Monitoring _____	20
Testing GPRS Level_____	21
Testing Device RF Level_____	22
Connecting a GPRS Antenna_____	23
Arming Input Wiring Diagram_____	23
Testing to Central Station_____	23
Programmable Input Configuration_____	25-27
Programmable Output Configuration_____	28-30
Configuring Scheduling_____	31-33
Enabling External RF Antenna_____	34
Mounting XT/XTX_____	35
Mounting XTO_____	36-37
Troubleshooting_____	37-39
Central Station not getting Video_____	37
Central Station not getting any signals_____	38
Panel saying Connected with Monitor Station_____	38
Unable to record device or getting "Pairing Failure" error_____	39
After Initial Programming Flow Chart_____	48-49

Basic Setup Guidelines for Installation and Programming

SETUP AND PROGRAM

- 1) Obtain the account number, IP address, and port number from the Central Station.
- 2) If using Cellular communication for primary or backup, activate the SIM card and obtain the APN code, username, and password by calling your cellular provider.
**Note: Do step 1 and 2 the day before the install.*
- 3) Setup and program the system in the office or in your vehicle. **DO NOT MOUNT THE DEVICES.** (Page 5-15)
- 4) Add user codes and or badges after initial programming. (Pages 16-17)
- 5) Silence the siren before arming for testing (If external siren is present). (Page 17)
- 6) Arm the system and send one alarm signal and video to the central station. Call the central station and make sure they received the signal. (Page 23)

**Note : Before deploying the system you will want to disable monitoring so that signals are not sent until you are ready to send them. (Page 19)*

DEPLOYING THE SYSTEM ON SITE

- 7) Put the panel where you want to mount it and run the Ethernet cable. In Maintenance run the ETH. STATUS test to make sure you are receiving an IP. If you are using cellular as backup or primary make sure you get 3/5 or better when running the GPRS Level Test. If not, you will need to move the panel and run the test again.* (page 20)
- 8) Now you are ready to deploy the devices. Use your keypad to run the RF test for each device. If you get a 9/9 for your RF test on the first device, then mount it. If not, you will need to move the device to get optimal signal.* (Page 21)

**Note: If you are not getting an appropriate GPRS or RF level, you can add an external antenna for either signal. (Not available for the XL)*

**Note: Re-enable monitoring before you send signals (Page 19)*

8.5) If you are currently using TMT Installer to program the system you can take still pictures from each MotionViewer using the software. See TMT Installer Users Manual available on support.videofied.com.

- 9) Once you have everything mounted, you are ready to arm the system and set off each device. Make sure you stand in front of each MotionViewer for 10 seconds so the central station has some video to look at. (Page 23)
- 10) After you have sent signals to central station, call to verify.

The following pages will go through each one of these steps and, if you have any issues, you cannot resolve, please feel free to call technical support at 1300 46 44 55 07 5341 8843 or you can reach live support chat and additional technical notes at www.videofied.com.au

Introduction:

Description:

The XT/XTIP control panel is a Videofied wireless, battery operated hybrid alarm system. It is designed for residential, small business security applications, commercial applications like warehouses and places with internet service. With Motion Viewers™ and the Videofied line-up, the XT/XTIP control panel will provide video verification on intrusion.

The XT/XTIP has programmable inputs and outputs and has a mapping function that allows the triggering of a video from a Videofied Motion Viewer upon any event.

The XT/XTIP also has two dedicated connectors to extend GPRS and Radio range.

Supervised Wireless Technology:

The XT/XTIP, along with all Videofied devices, uses the patented S2View® - Spread Spectrum, Videofied, Interactive, AES Encrypted Wireless technology, providing optimum signal integrity and security.

The bi-directional RF communication path between all devices and the system control panel guarantees high signal reliability. Integrated antennas eliminate protruding wires or rods, both more difficult to install and unsightly to consumers, and potentially troublesome if damaged.

The panel supervises every device (excluding the remote key fob) to validate current open/close state, tamper condition, serial number, date of manufacture, firmware revision, and battery status.

The RSI VIDEO TECHNOLOGIES team wishes you a good installation.

SETUP MANUAL FOR XT/XTIP SERIES GPRS PANEL

THIS SYSTEM REQUIRES A CMA701 or TMT INSTALLER SOFTWARE FOR PROGRAMMING

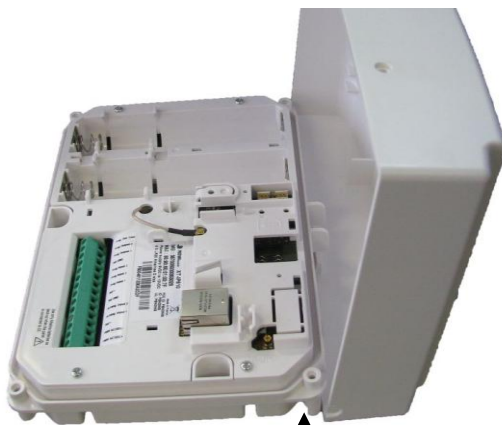
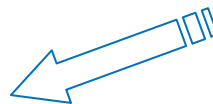
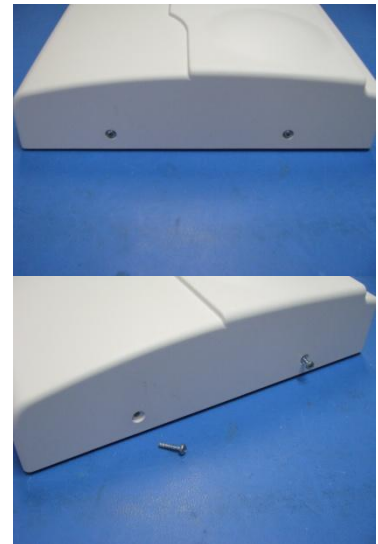
TO TRANSMIT ALARMS AND VIDEO VIA ETHERNET, THE SYSTEM REQUIRES AN EXTERNAL POWER SUPPLY WITH 4 ALKALINE BATTERIES FOR BACK-UP (PP4)

XT Initial Programming



Open the Control Panel

Using a #1 Phillips screwdriver, remove the 2 screws holding the cover on.

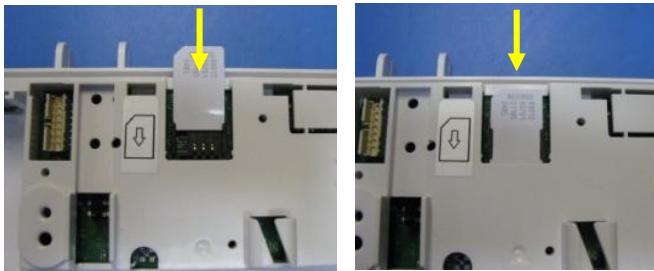


The cover will fold off the panel like a book with the curved side acting like the binding. The same technique is used when placing the cover back onto the unit.



When removing the XTO cover, pull straight off, do not slide it.

*The SIM card must **NOT** be inserted or removed while the panel is powered*

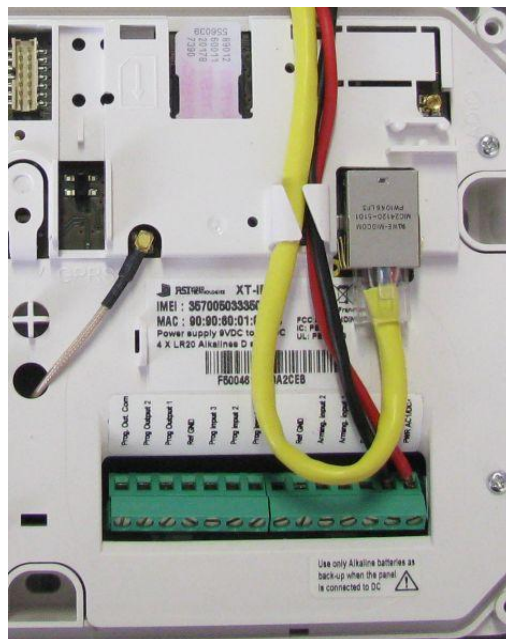


Install the SIM card

Slide SIM card into the slot.
Make sure it is aligned correctly.
The SIM card is not required if you plan on using Ethernet only.

Connect the RJ45 (Ethernet cable) to the panel

Plug the RJ45 cable into the Ethernet jack on the control panel. The cable can be routed back through the wire channel to make sure it does not get pinched.



Important:

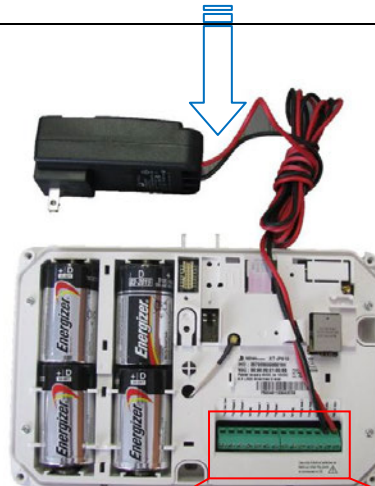
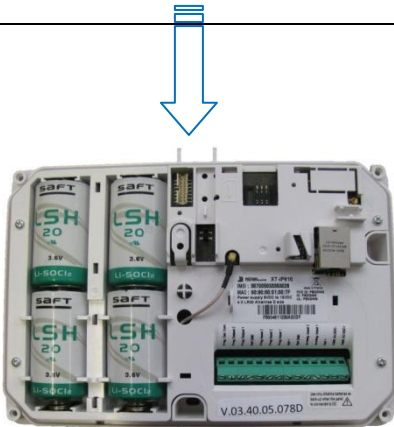
When the panel tries to transmit via Ethernet, a red LED flashes. This LED helps the installer know if the panel is attempting to transmit over Ethernet.



Powering the Panel

****TO TRANSMIT ALARMS AND VIDEO VIA ETHERNET, THE SYSTEM REQUIRES AN EXTERNAL POWER SUPPLY WITH 4 ALKALINE BATTERIES FOR BACK-UP (PP4)****

Option 1: PP1	Option 2: PP4
4 x LSH20 SAFT Lithium D-Cell	4 x E95VP Alkaline D-Cell + 12DC power supply
Used for Standalone or Xtender mode without Programmable Inputs, Programmable Outputs, Ethernet, or SMS	Used for Standalone or Xtender mode where Programmable Inputs/Mapping, Programmable Outputs, Ethernet connection, or SMS will be used



WARNINGS:

DO NOT INSTALL A TRANSFORMER WHEN USING OPTION 1 (LITHIUM BATTERIES).



XTIP Programming

Reset the XTIP Panel:

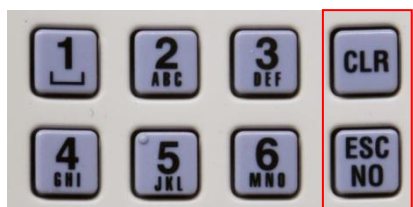
Press and hold programming button (1) for 10sec until the Indicator LED blinks twice



Press and instantly release the programming button (1). The indicator LED will blink once. The panel is now in „Learn Mode” for the CMA601 keypad.



Insert all three batteries into the CMA601 and press both the ESC/NO and CLR keys at the same time and release. The indicator LED on the keypad will blink rapidly.



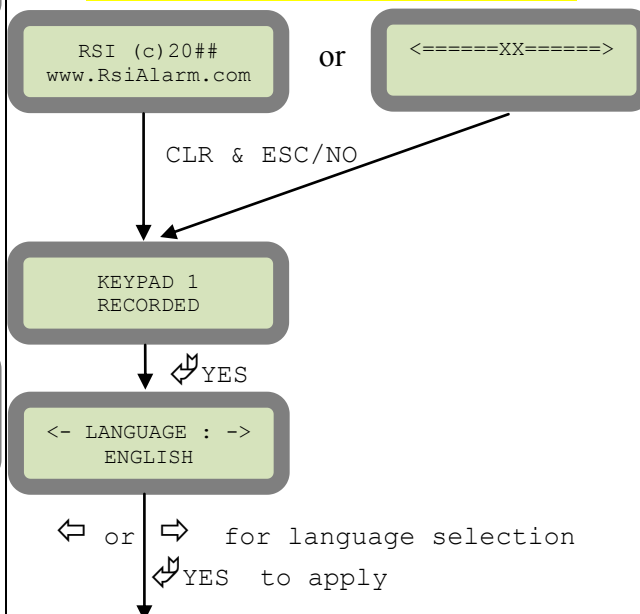
Other languages are available by scrolling with arrows. ITALIANO, NEDERLANDS, DEUTSCH, CASTELLANO, SVENSKA, PORTUGUES, FRANCAIS
Press YES for the selected one.

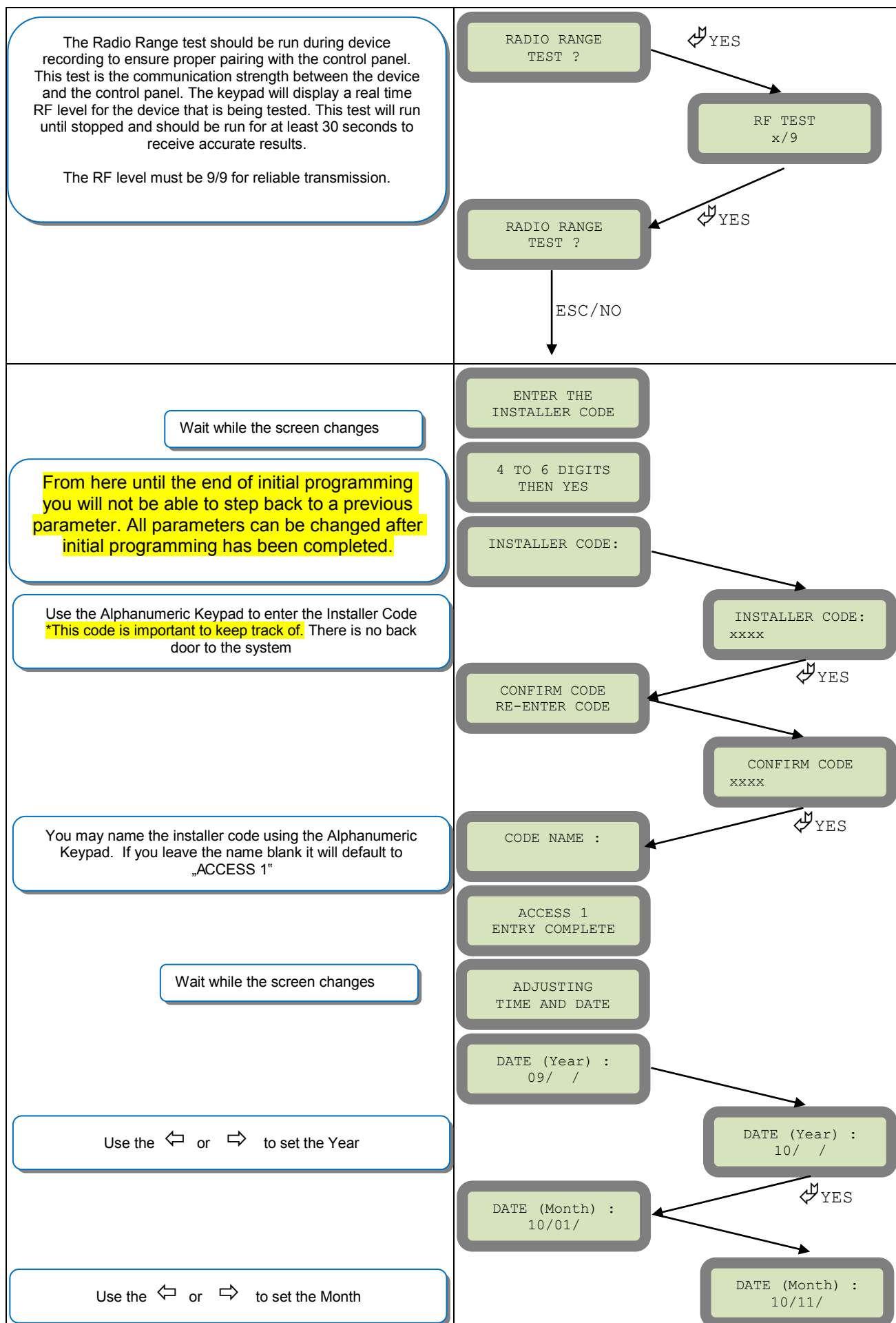
Obtaining Special Characters on the Keypad

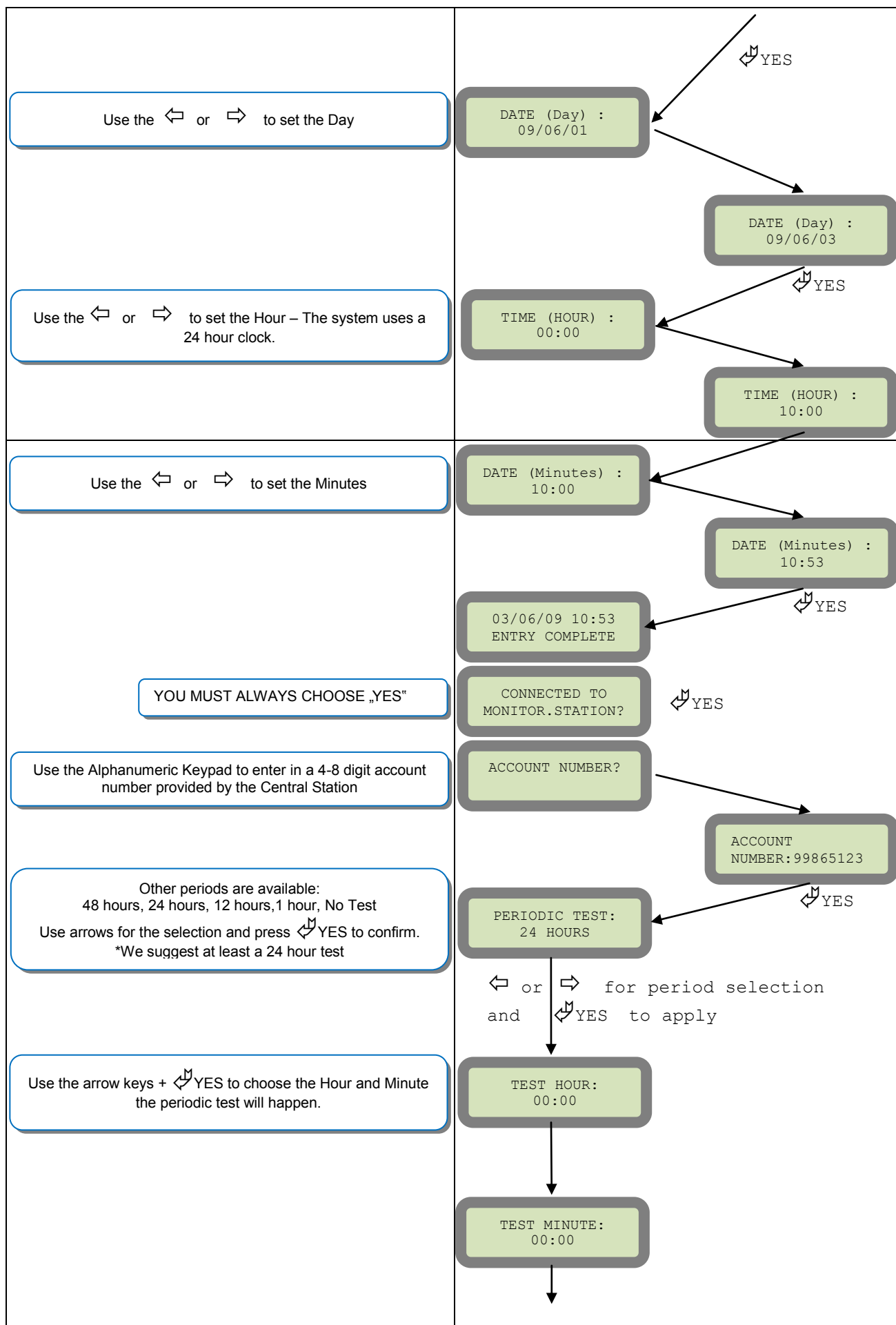
Key	1 st press	2 nd press	3 rd press	4 th press	5 th press	6 th press	7 th press	8 th press	9 th press	10 th press	11 th press
1	"space"	.	,	'	?	!	:	:	#	1	
0	-	+	=	/	¥	_	<	>	(	)	0
@	@	\$	%	&	*	#					

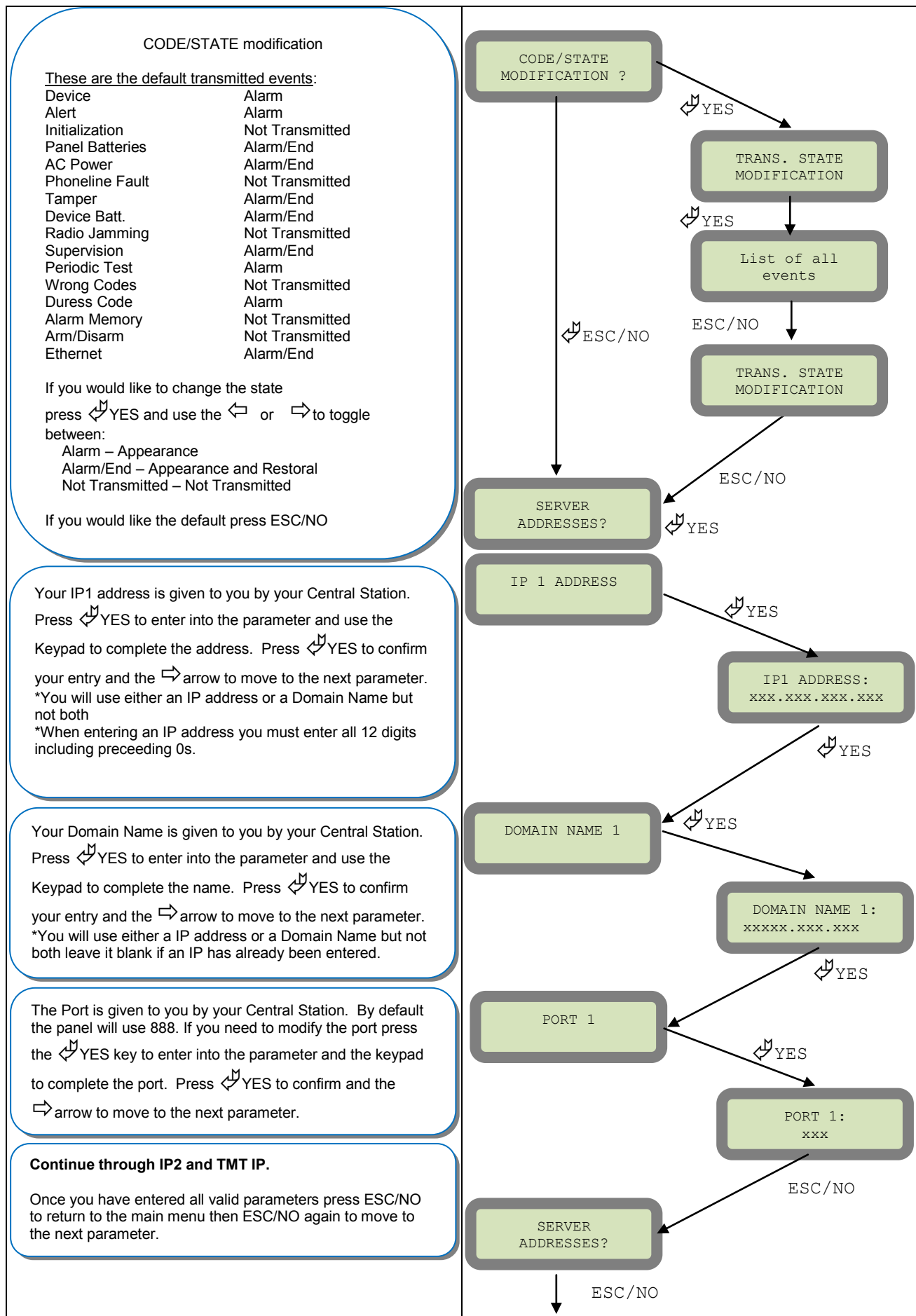
*Note: If you are having issues pairing the keypad to the panel, please refer to the troubleshooting section.

CMA Programming Device/Keypad









Press right arrow → to select the transmission mode for alarms and videos and YES to confirm.

1. Ethernet transmission with GPRS back-up
2. Ethernet transmission only
3. GPRS transmission only

Warning: the transmission mode "Ethernet only" is not recommended.

Your APN code (Access Point Name) is given to you by your Cellular Provider. Press YES to enter into the parameter and use the Keypad to complete the code. Press YES to confirm your entry and the → arrow to move to the next parameter.

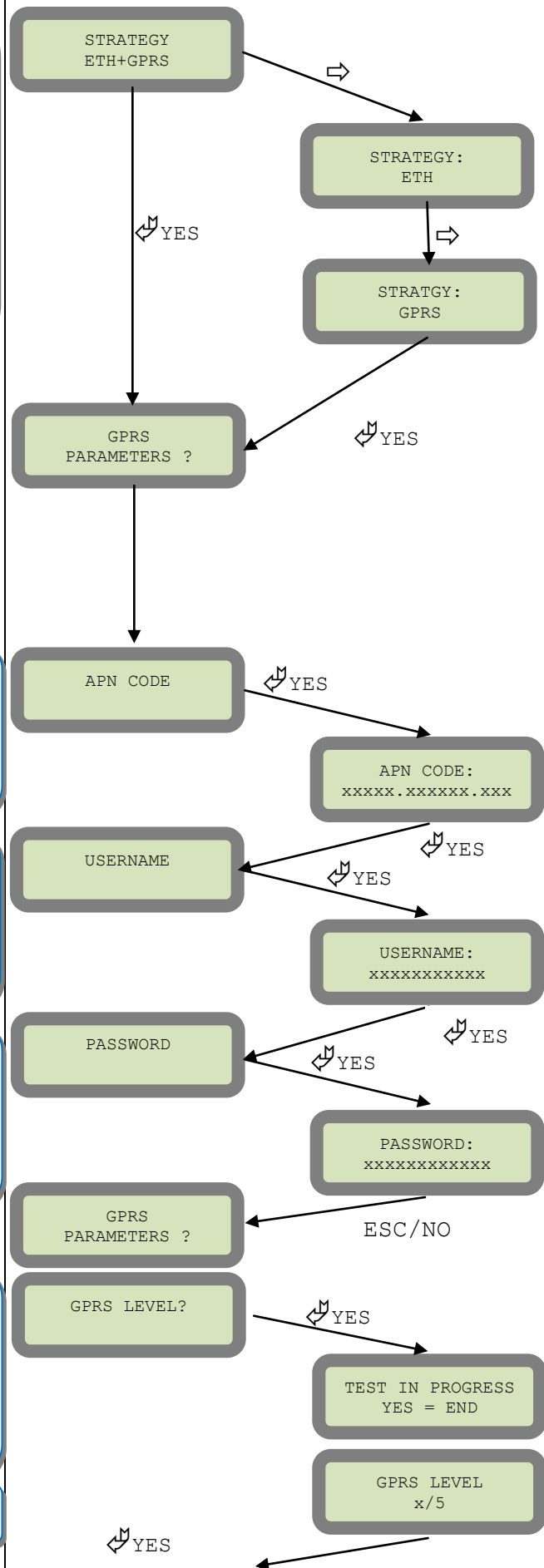
Your USERNAME is given to you by your Cellular Provider. Press YES to enter into the parameter and use the Keypad to complete the name. Press YES to confirm your entry and the → arrow to move to the next parameter.

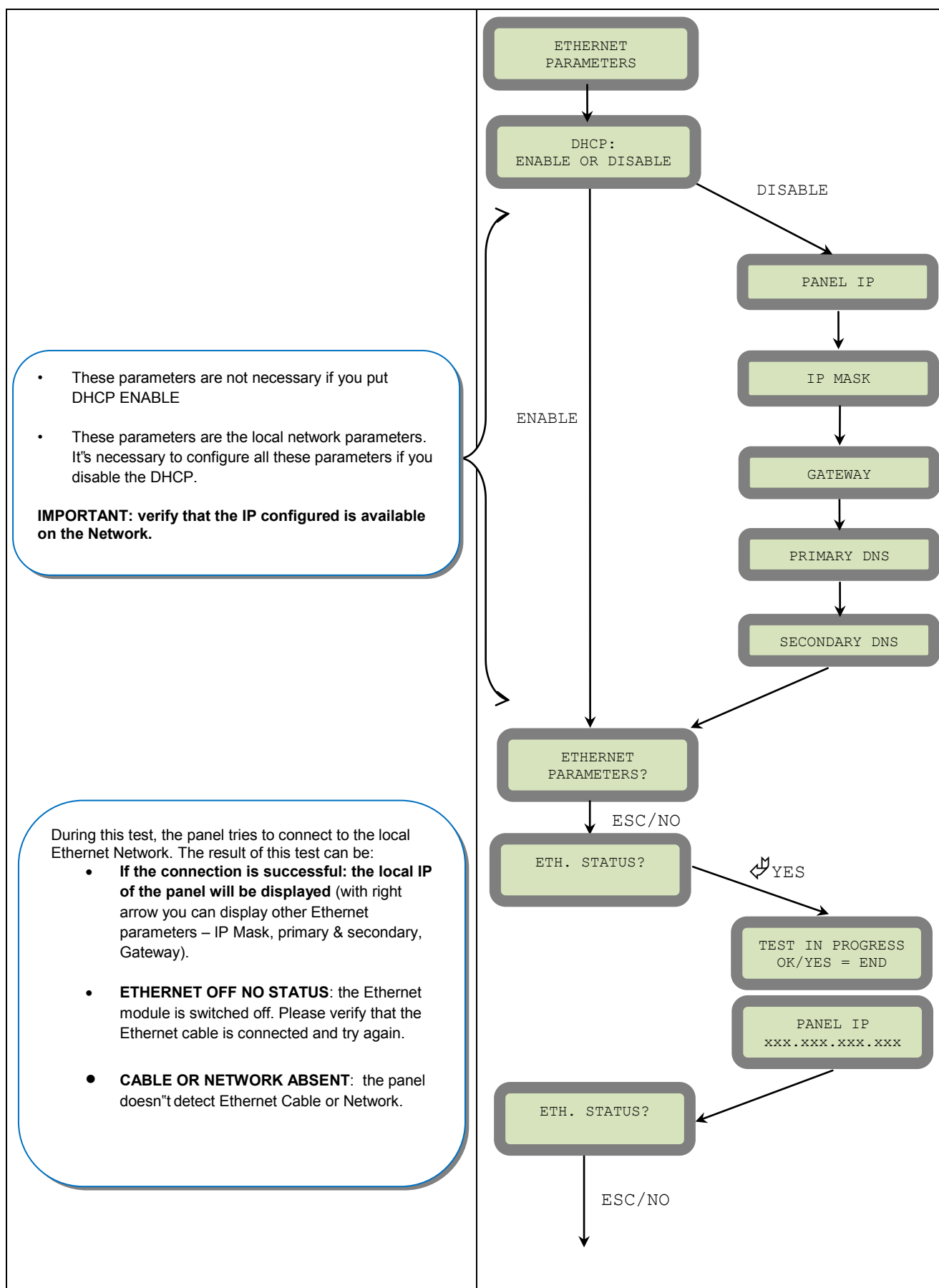
Your PASSWORD is given to you by your Cellular Provider. Press YES to enter into the parameter and use the Keypad to complete the name. Press YES to confirm your entry and ESC/NO followed by ESC/NO again to get back to programming.

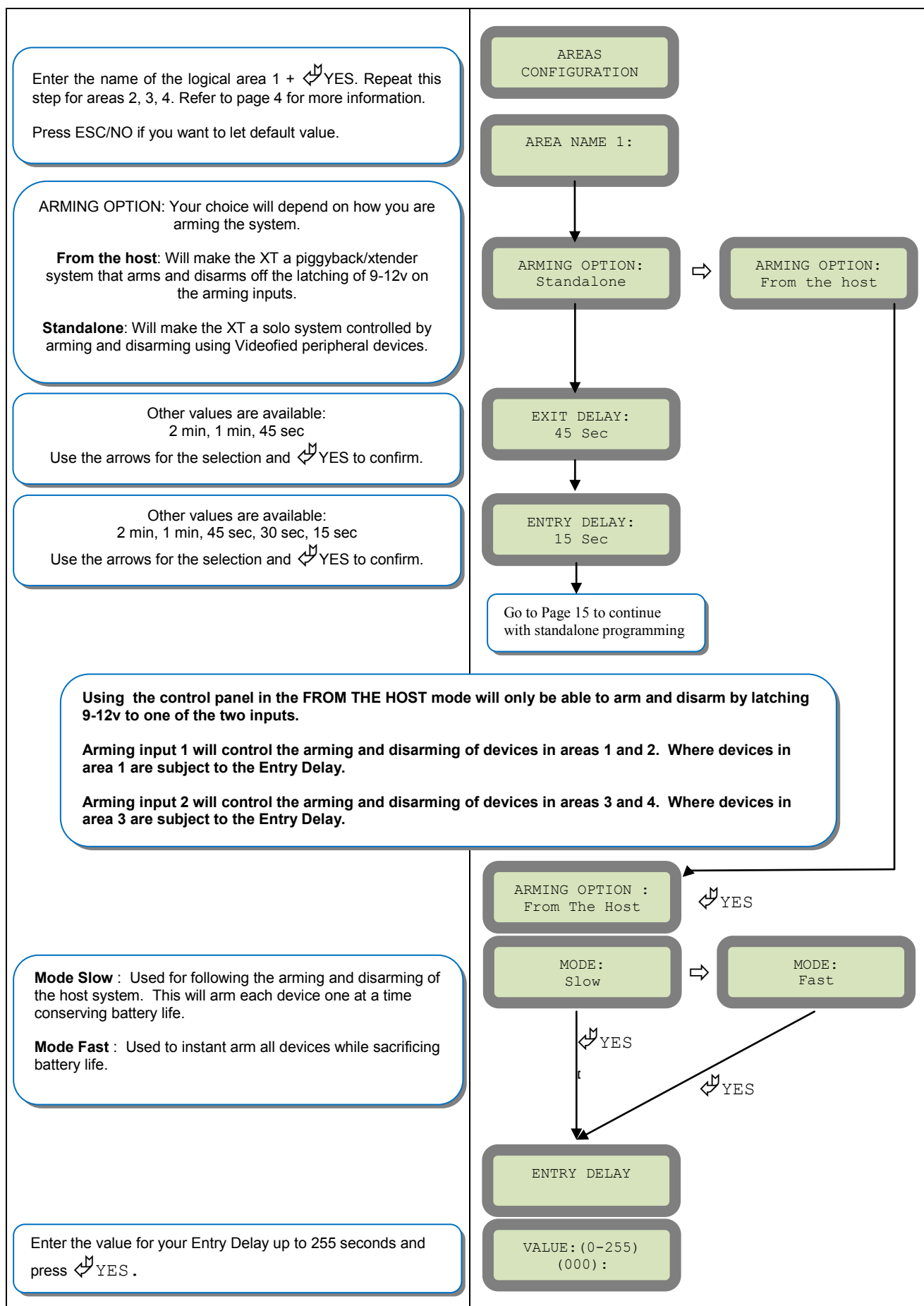
During the GPRS Level test the Modem will boot and attempt to gain access to the internet to post a Level out of 5 or an error Code that will help troubleshoot why it cannot connect. To keep the keypad awake use any keys on the keypad except the YES, ESC/NO, and CLR keys. This test can take up to 5 minutes. Once the level or error has posted press YES to continue in programming.

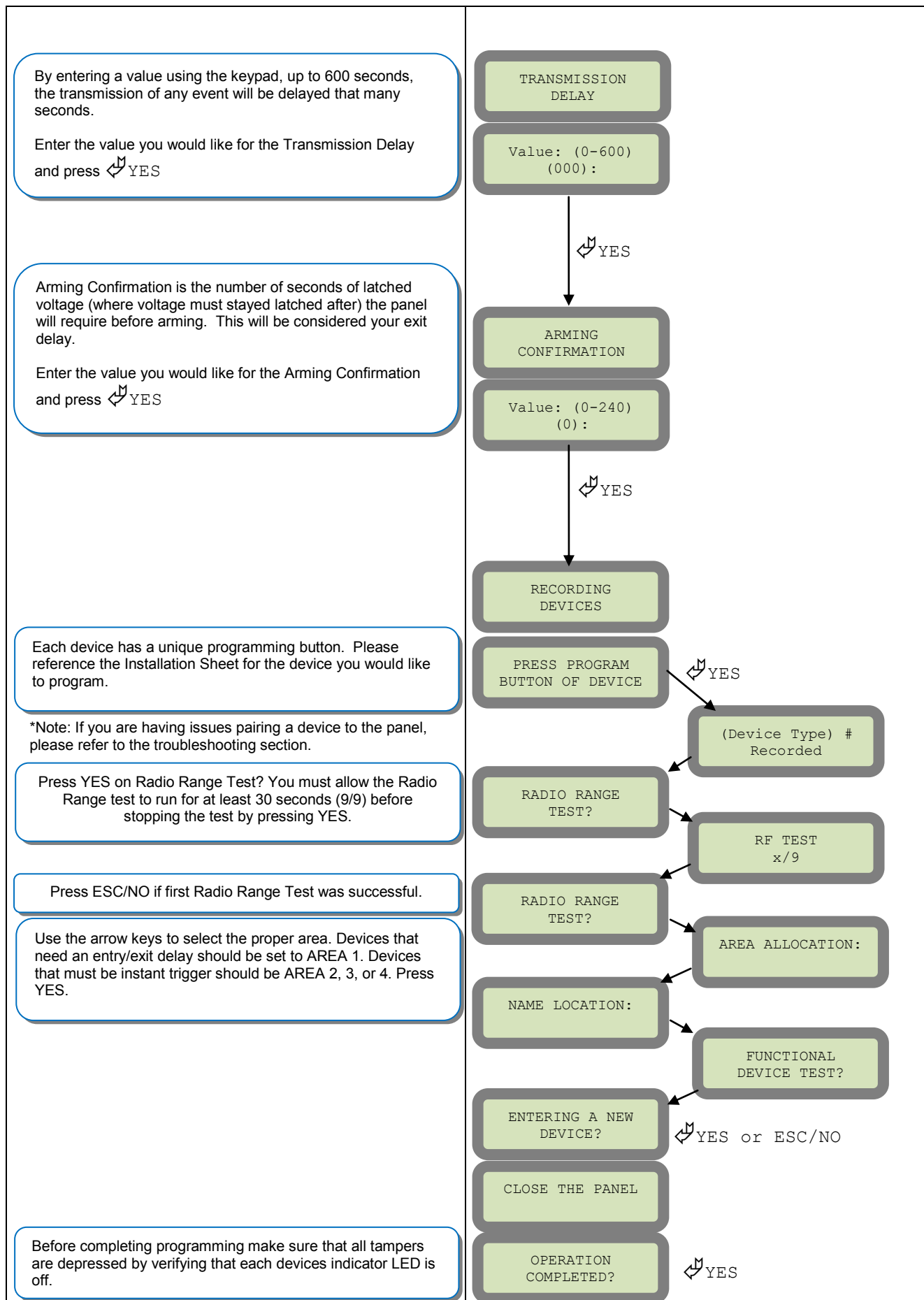
*For explanation of GPRS errors see bottom of page.

Videofied will require a 3/5 or better for reliable transmission of Video alarms



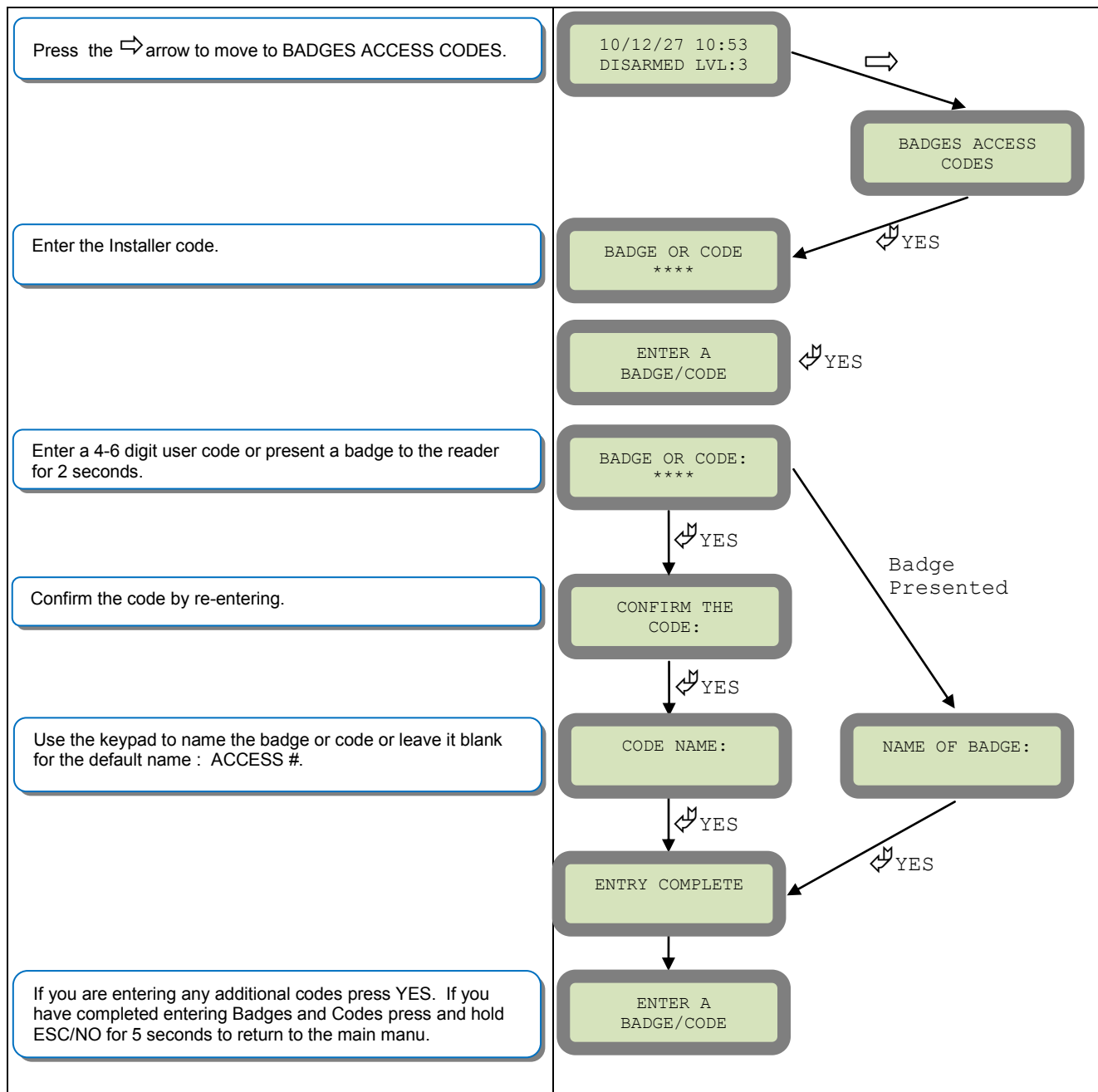






Entering a Badge or Access Code for Arming/Disarming

After Initial programming has been completed, you are not able to arm and disarm the system until you enter a user code or badge (the installer code cannot arm and disarm the system). Codes can be 4-6 digits and the 4th digit must be 2 values higher or lower than any other code on the system: Example: User code 1234, next code cannot be 1235, 1236, 1233, or 1232 – These are reserved for Silent Duress and Audible Duress. The XT system can accept up to 19 Badges or Access codes in any combination.



Reserved codes	Reserved codes	Reserved codes
000000	From 9998 to 9999	All codes +1
	From 99998 to 99999	All codes +2
	From 999898 to 999999	All codes -1
	From 314157 to 314159	All codes - 2
A total of 186 codes are forbidden		

Access level	Definition & rights
LVL1	Stand by level
LVL2	Restricted USER level where it is only possible to arm/disarm the system.
LVL3	USER level where it is possible to arm/disarm the system, check the event log, test the devices. Modifications of the setting are not possible at this level. User LVL3 can create LVL3 or LVL2 access codes.
LVL4	INSTALLER level where it is possible to modify the setup of the panel. The approval of a LVL3 or LVL2 is required to modify the level for LVL4. Installer LVL4 can create the first LVL3 access code only.

Configuration of Special Arming Modes:

To configure or modify a special arming mode, with the direction arrow go to the menu:

CONFIGURATION (LEVEL 4) + [YES] → ALARM MODES PROGRAMMABLE + [YES] → FULLY ARMED, SP1 and SP2 (use direction arrows to select the arming mode you want to modify + [YES]).

For each arming mode, it is possible to specify how each of the 4 areas will be armed and how the system will behave during an alarm.

Areas: 1 2 3 4 Each time you press the corresponding number, the system will toggle the arming

States: A A A A state for the respective area.

Press the [YES] key after this configuration step. The system will then display what siren mode will be in effect for this special profile. Select the siren mode using the direction arrows then press [YES].

A	Armed
D	Disarmed
P	Perimeter (all the opening contacts)
E	External (opening contacts protecting an exterior access)

Siren	Immediate triggering of all sirens
Delay beeps	Entry/Exit delay beeps, then triggering of the sirens
Silent	Without siren, without beeps
Without siren	Beeps on the keypad only

ETHERNET Parameters:

To configure or modify Ethernet Parameters, go to:

CONFIGURATION (level 4) + [YES] >> GENERAL PARAMETERS + [YES] >> ETHERNET + [YES]

- **IP Parameters:**

When you use the Ethernet transmission mode, two options are available:

1 - DHCP Enable: Each time the panel connects to the local network a new IP address will be given to the panel.

2 – DHCP Disable: With this option the panel will have a local static IP. Each time the panel connects to the local Network, the panel will have the same IP. You have to configure Panel IP, IP Mask, Gateway, Primary & Secondary DNS. To know these parameters you have to connect to the router.

- **Constant Ethernet:**

Three options are available:

1 – “Auto” Mode. We recommend this mode. If main powered, the panel will be connected constantly to the local Network. In case of an alarm, the alarm will be sent in few seconds to the monitoring station. When the main power is cut, the Ethernet module will switch off after a delay (DELAY BEFORE OFF – 30 by default) in order to save battery life. In case of an alarm, the panel will at first connect to the local Network. It adds few seconds to the total process of sending an alarm.

2 – “ON” Mode. The panel will be connected constantly to the local Network. This option will impact back-up battery life.

3 – “OFF” Mode. For each transmission of alarm and video, the panel will connect to the local Network.

- **PING REPLY:** enable the response to a PING
- **Time Out Server:** In case of disconnection to the local Network, the panel will try after that time to re-connect.
- **Max Seg. Size:** Size of packet sent

Codes	Action
999999	Maintenance request - GPRS transmission
999996	Maintenance request - Ethernet transmission
999995	The Ethernet local IP of the panel will be displayed: If the DHCP mode is deactivated : the fixed local IP of the panel will be displayed (defined in the ETHERNET menu – 7) If the DHCP is activated: • If the panel is not in transmission then 0.0.0.0 will be displayed • If the panel is in transmission (the RJ45 led will be flashing) then the dynamic IP of the panel will be displayed. For the next transmission the panel will have a new local IP.
999991	The panel will send a test alarm to the IP 1 (the installer will know quickly if the panel is transmitting well or not). In case of transmission problem, the panel will be blocked only few minutes “in transmission to the monitoring station” The event Alarm Test will be sent to the IP1 (or IP2 in case of back-up.
999997	Give the information that the panel detects main power or not.

Strategy: Configures the connections and connection order that will be used by the control panel.

<u>ETH + GPRS:</u>	Ethernet will be used as the primary connection. If communication fails the system will roll over to the GPRS communicator
<u>ETH:</u>	Only Ethernet will be used to connect the panel with the monitoring station
<u>GPRS:</u>	Only GPRS will be used to connect the panel with the monitoring station

When you have completed initial programming, configuration options can be found at:

Configuration-> Configuration Monitor Station-> Monitoring Parameters-> Calling Profile->

<u>Strategy:</u>	Listed above
<u>Sequence:</u>	Allows you to configure the number of attempts by each connection type and by primary and secondary Server Addresses. E=Primary Server Address over Ethernet e=Secondary Server Address over Ethernet G=Primary Server Address over GPRS g=Secondary Server Address over GPRS Example Sequence: EEEGGGeeeegg
<u>Alternating Tests:</u>	When programmed will alternate sending the periodic test event first over Ethernet then over GPRS.

Ethernet/IP Parameters: Configures how the IP address is assigned to the control panel when you are connected to Ethernet. After initial programming is completed this parameter can be found at:

Configuration-> General Parameters-> Ethernet-> IP Parameters->

<u>DHCP Enabled:</u>	When enabled the panel will attempt to be issued an IP address by the local DHCP Server
<u>DHCP Disabled:</u>	When disabled you must manually enter the IP information for the panel including the Panel IP, IP Mask, Gateway, Primary DNS, and Secondary DNS.

Ethernet Status: Tests the connection of the Ethernet cable to the local network. After initial programming is completed this parameter can be found at:

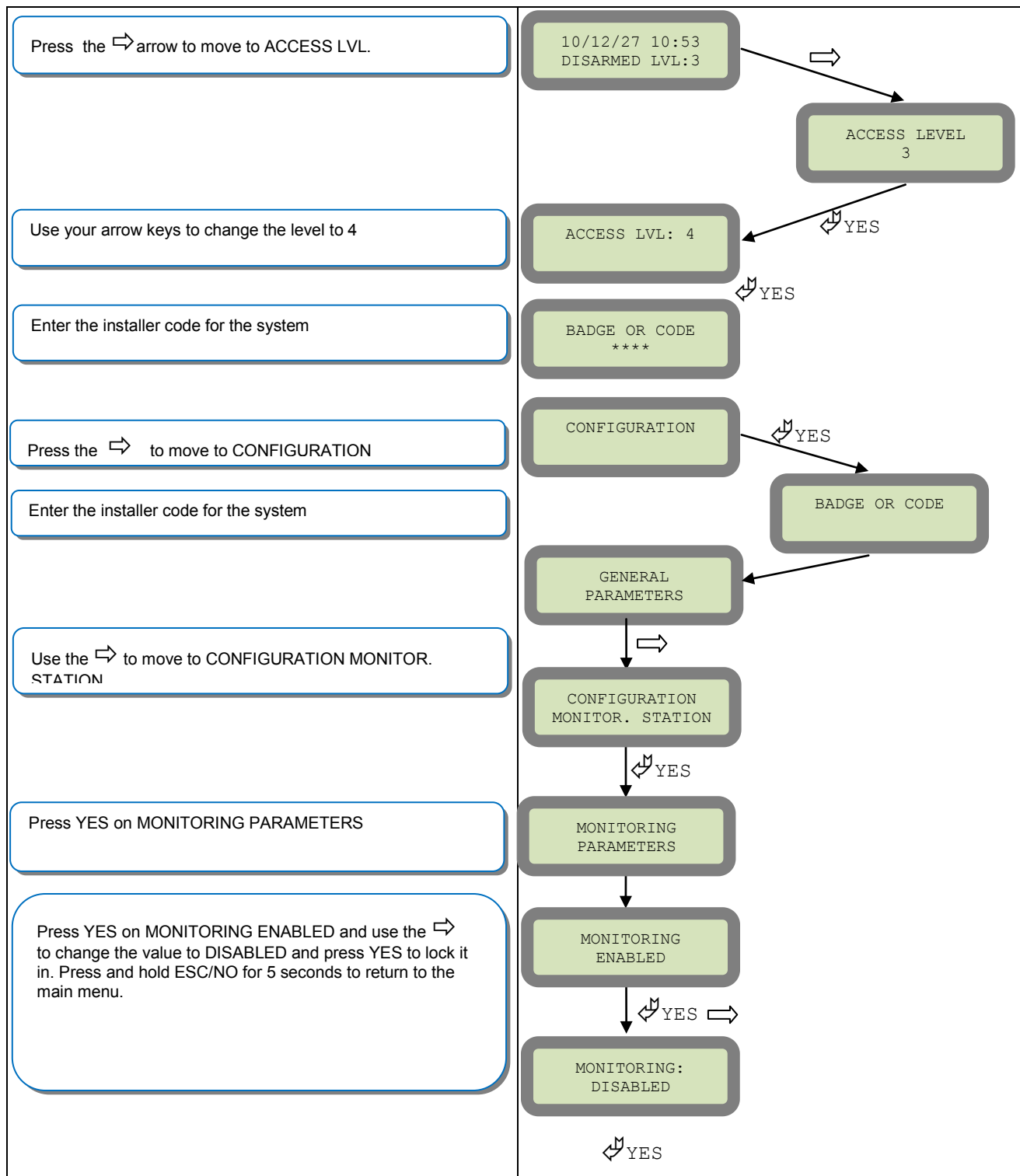
Maintenance-> Eth Status->

During this test the results can be:

<u>Local IP Address listed:</u>	Successful connection (with arrow keys other IP parameters will be listed)
<u>Ethernet Off:</u>	The Ethernet module is off. Check programming to enable Ethernet communication. Also make sure the panel is powered by 12v 2amp DC power supply.
<u>Cable or Network Absent:</u>	The panel does not detect the Ethernet cable or network. Make sure both ends are plugged in and indicator LEDs on Switch and panel are blinking.

How to Disable/Enable Monitoring

Disabling monitoring can be a useful tool in many situations. Before mounting devices and moving the panel to find a good GPRS level, disabling monitoring will ensure that you will have access to programming and that unnecessary signals are not sent to the monitoring station. When performing maintenance on the system disabling monitoring until the issue has been resolved will ensure that you will have access to programming throughout your troubleshooting.



GPRS for deployment of panel

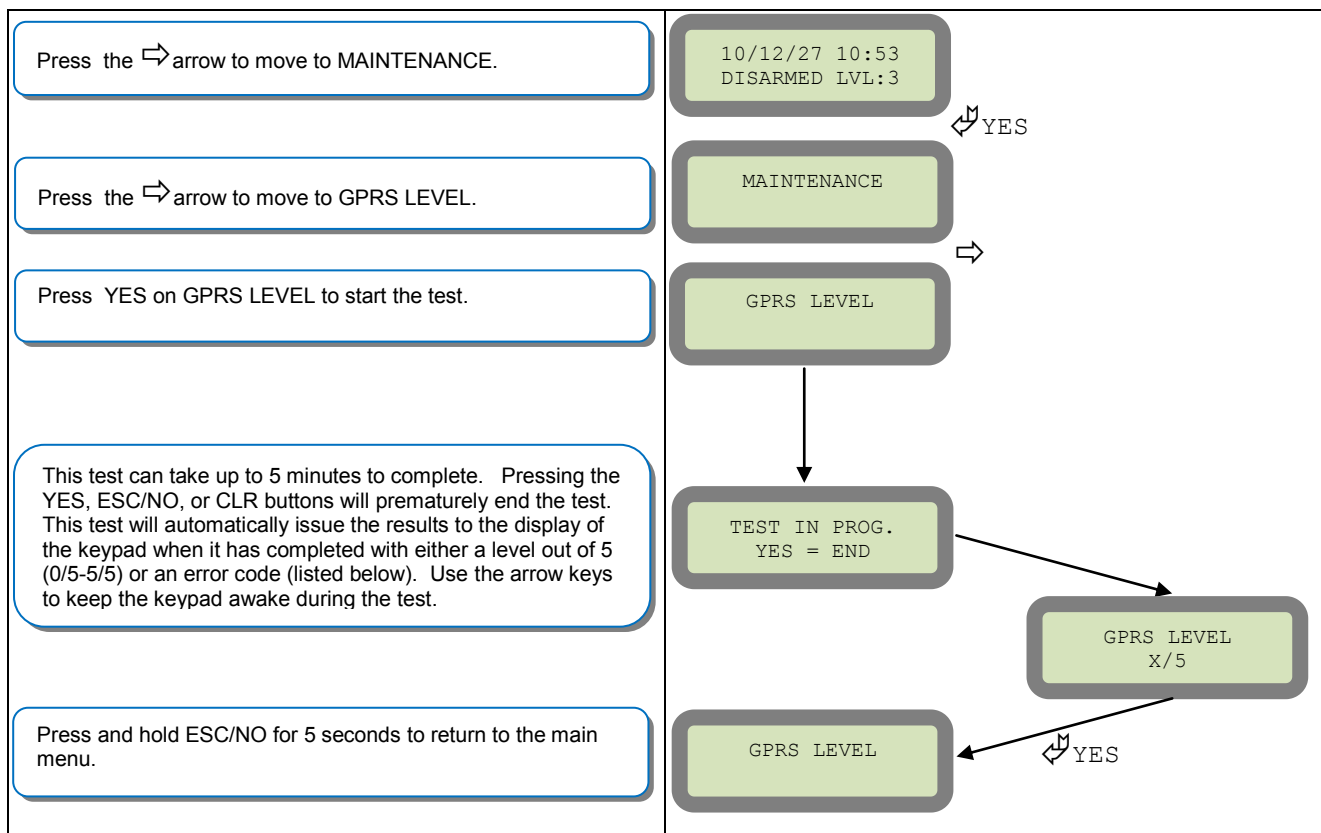
Before the system is mounted you will need to check the GPRS level to make sure it is adequate. If the level is 3/5 or better you can mount the control panel in that location.

GPRS Errors when running GPRS LEVEL

Codes	Error
010	SIM card not detected/not inserted
043	Provisioning problem, contact cellular provider
132	SIM card not activated
255	Cannot connect to cell tower

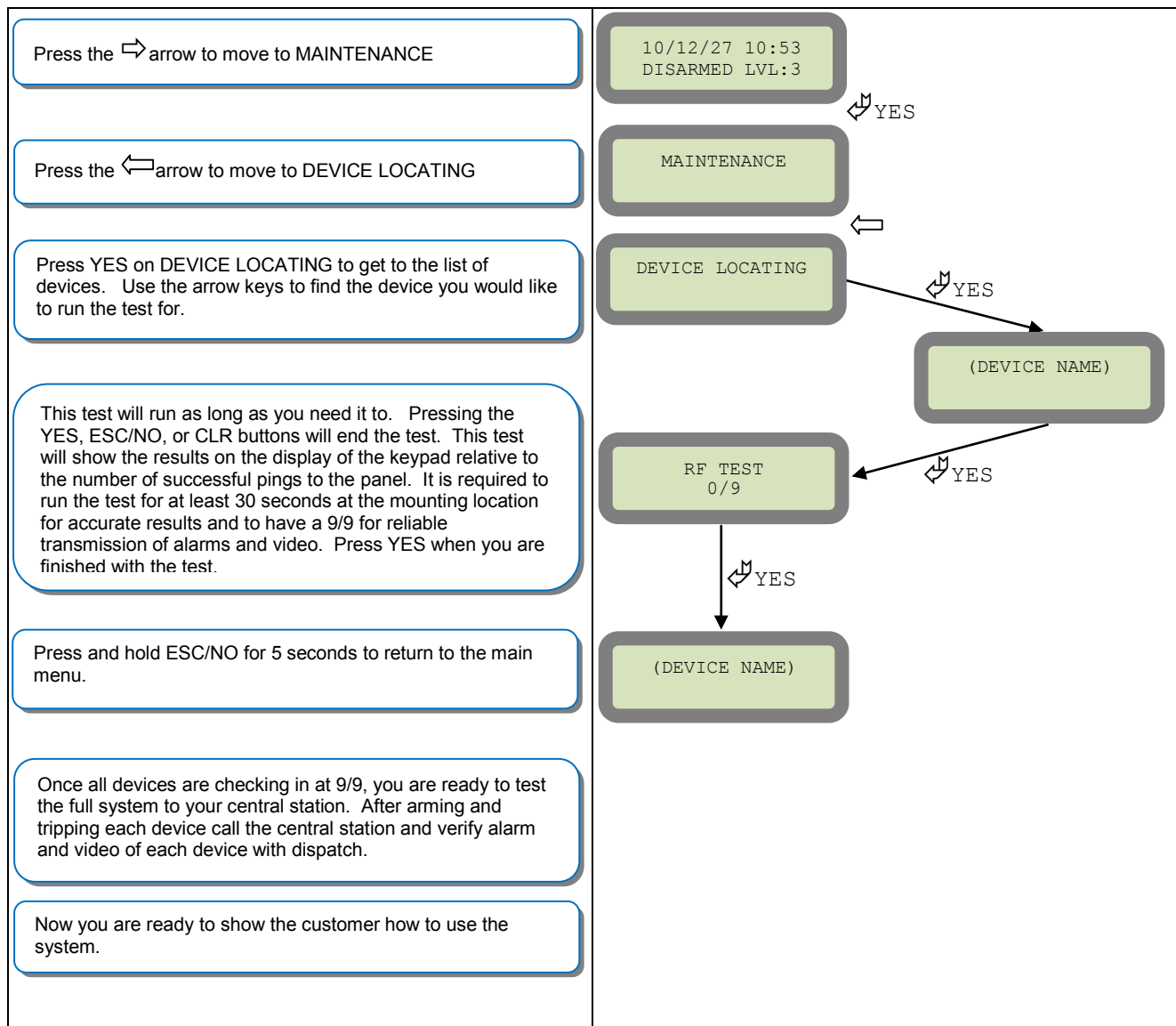
GPRS Codes in Event Log

Codes	Error
256	Cannot connect to cell tower
11	SIM not ready if multiples, SIM not detect if only one
48	Signal rejected by host, IP, Domain Name, or Port are incorrect



How to test RF for deployment of devices

Running the RF test during the mounting of devices is key to a successful Videofied installation. This test will ensure that all devices have adequate communication with the control panel. All Videofied devices are bi-directional which allows the system to ping the device and expect a response. The number of successful responses out of 9 will be displayed on the keypad for the device you are running the test for. This is also a relative range that will change in real time as you walk further away from the control panel and back closer.

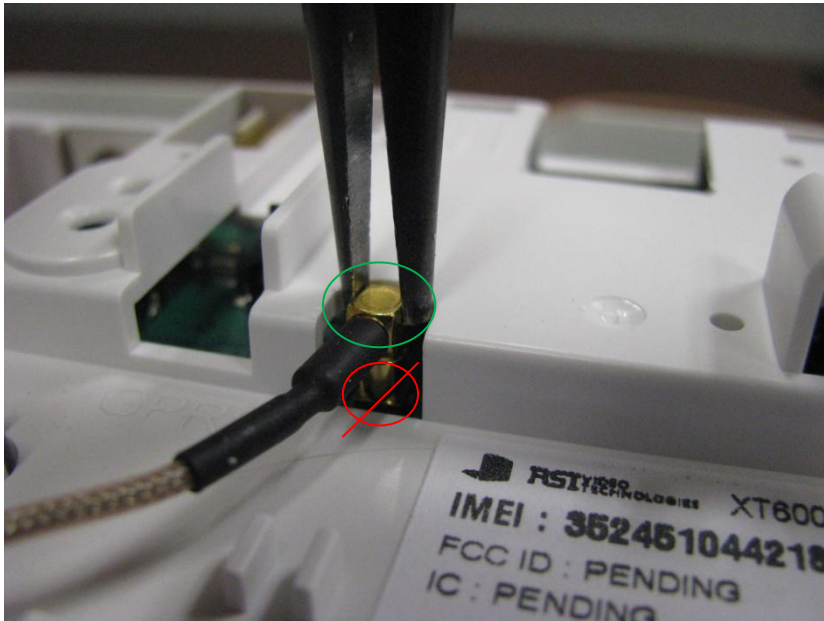


NOTE: To insure proper operation of the system you must get 9/9 with each device before mounting.

GPRS Antenna Connection

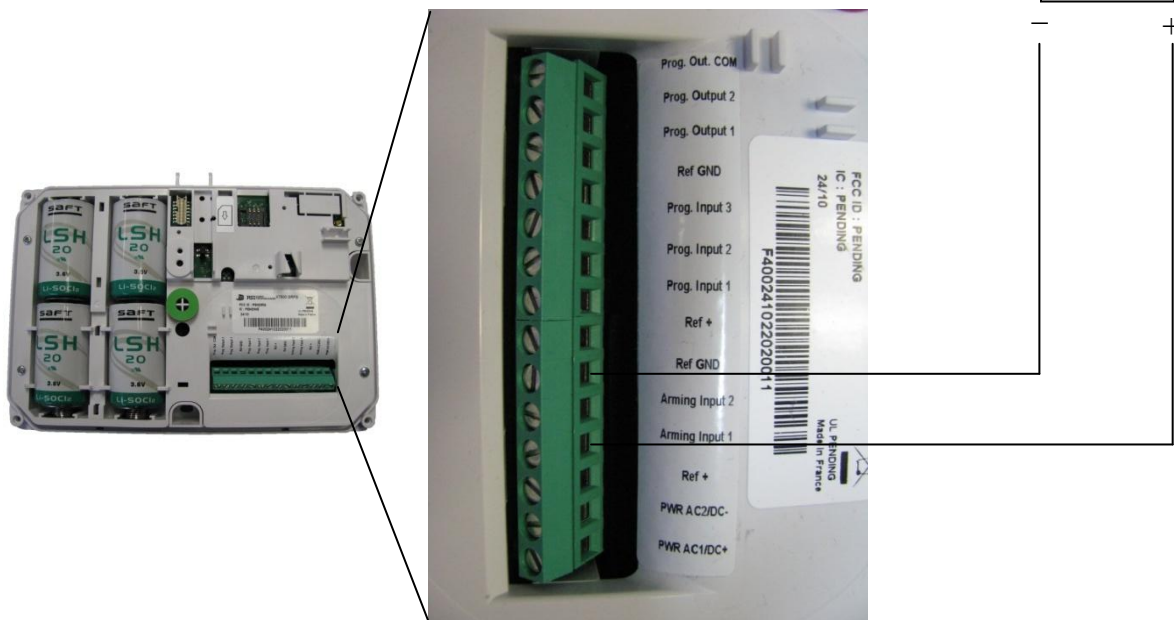
! WARNING !

Use caution before removing antenna connection. Damaged antenna connector is NOT covered under warranty.



Using needle nose pliers, be sure to only grab the connector and pull directly up

Arming Input Wiring Diagram

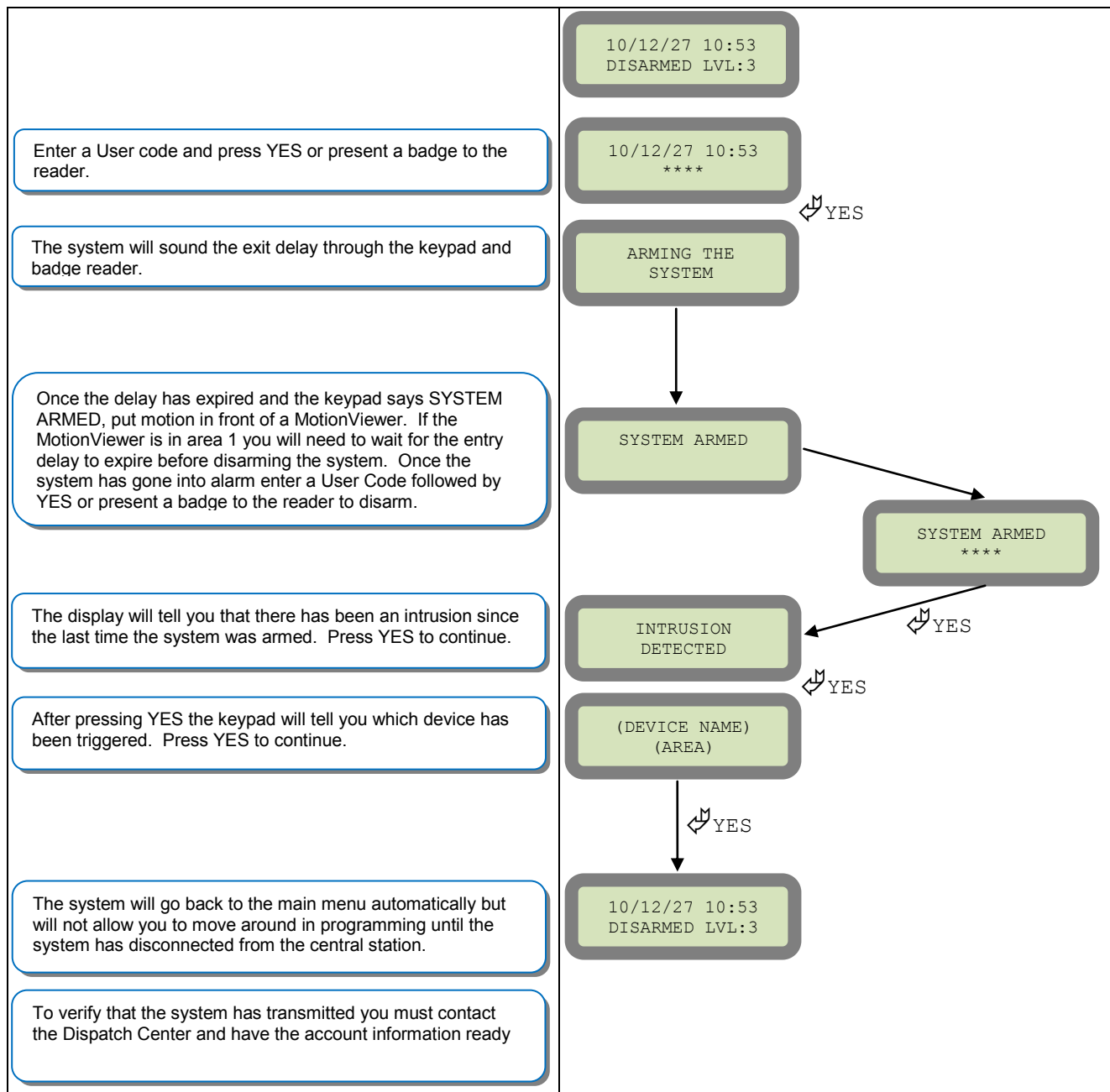


When in Arm From Host mode the Videofied system will only arm and disarm when 9-12v is supplied and sustained.

Arming Input 1 will arm/disarm Areas 1 & 2
Arming Input 2 will arm/disarm Areas 3 & 4

How to test to the dispatch center

Testing to the dispatch is done twice during installation. Once while you are programming the system and then again once the installation has been completely finished. Although both will use the same steps the initial test will be just confirmation using one device to verify the programming.



Note: Send 1 MotionViewer in at a time and verify with Central Station that they are getting Alarm and Video before tripping another MotionViewer. This will save time with the Central Station.

General Programmable Input Configuration



General Configuration - Programmable Inputs

PRODUCT APPLICATION NOTE

Manufactured by RSI Video Technologies

January 2011

The RSI Video Technologies XT600 series control panels can accept up to 3 hard wired peripheral devices. These devices can be normally opened or closed, wet or dry.

YOU CAN ONLY USE THE INPUTS WITH ALKALINE + POWER SUPPLY

The inputs can be programmed to have unique identification name and transmit one of the standard events used by Videofied. With these capabilities you are able to perform a takeover of an existing alarm system or add in needed devices for the job that Videofied may not manufacture.

Programmable inputs 1, 2, and 3 are triggered by voltage between 9V and 15V and an intensity between 1.5mA (29V) and 3mA (@15v). If a dry contact is used to trigger the programmable inputs the REF+ output can be used to supply this dry contact.

During transmission of the programmable inputs alarm the event will be accompanied by zone 26,27,28 respectively.



Required Products:

XT600 series control panel

CMA601 Alphanumeric keypad

Hard wired device with normally open or closed relay

Configuration of the programmable inputs can be found at the following menu location:

With the display showing the date and time stamp along with the current Access Level. You must change your Access Level to 4. RIGHT ARROW to ACCESS LEVEL and press YES, RIGHT ARROW to ACCESS LVL: 4 and press YES. When prompted with BADGE OR CODE enter your installer code + YES.

Using the RIGHT ARROW go to CONFIGURATION and press YES, when prompted with BADGE OR CODE, enter your installer code + YES.

With the display showing GENERAL PARAMETERS press the YES key. Use the RIGHT ARROW and go to PROGRAMMABLE INPUTS and press YES. It will now show you PROGRAMMABLE INPUT 1. Use the RIGHT or LEFT ARROW keys to choose which programmable input you will be using and press YES.

DATE / TIME
DISARMED LVL: 3

ACCESS LEVEL
4

CONFIGURATION

PROGRAMMABLE
INPUT 1

General Configuration - Programmable Inputs

After choosing which programmable input you will be using you will be required to configure the input for transmission type, name, and features of the input. Press YES on the parameter, and use the ARROW KEYS to change the value and press YES. Use the ARROW KEYS to move to the next parameter.

TRANSMISSION: DISABLED

ENABLED - Will transmit the event no matter panel status

DISABLED - No transmission will be sent

ONLY IF ARMED - Will transmit the event only when the system is fully armed

TRANSMISSION
ENABLED

ALARM MODE: ALARM

ALARM = Appearance of the event only

ALARM/END = Appearance and restoral of the event

ALARM MODE:
ALARM

INPUT TYPE: NORMALLY OPEN

The INPUT TYPE will depend on whether or not the external wired device you will be hooking up to the Input terminal is Open or Closed in its normal (non alarm) state.

INPUT TYPE
NORMALLY OPEN

EVENT TYPE: INTRUSION

The Event type determines the event that is sent to the central station when the programmable input is triggered.

EVENT TYPE
INTRUSION

Event Types: Capable Alarm Modes

INTRUSION -	Alarm
TAMPER -	Alarm or Alarm/End
PANIC BUTTON -	Alarm
INCORRECT CODE -	Alarm
DURESS CODE 1-	Alarm
SUPERVISION -	Alarm or Alarm/End
RADIO JAMMING -	Alarm or Alarm/End
LOW PANEL BATT -	Alarm
LOW DEVICE BATT-	Alarm
AC POWER MISS. -	Alarm or Alarm/End
PANEL RESET -	Alarm
SYSTEM ARMED -	Alarm
SYSTEM DISARMED -	Alarm
PERIODIC TEST-	Alarm
ALARM CANCEL -	Alarm
SMOKE DETECTION -	Alarm
PHONELINE MISS. -	Alarm
TMT REQUEST -	Alarm

General Configuration - Programmable Inputs

INPUT NAME is the name that the Central Station will see when this input is triggered. This should describe the function of the device hooked up to the input.

INPUT NAME
PANIC VIDEO

SIREN MODE: SIREN - This will determine how the siren will function when the programmable input is activated.

SIREN MODE
SIREN

SIREN - Activation of all sirens on the system

WITHOUT SIREN - Only Keypad and Badge Reader sounders

SILENT - No activation of any sounders or sirens

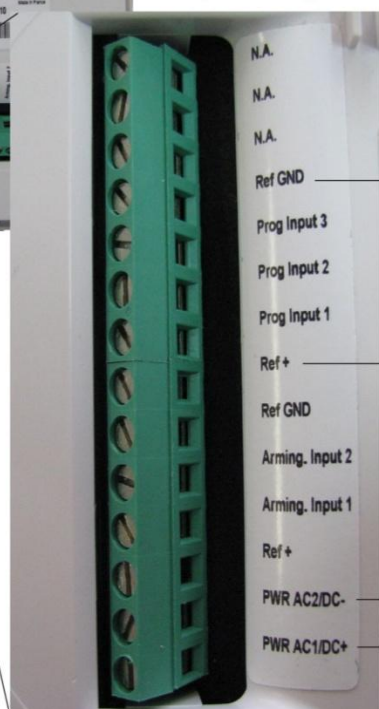
DELAY BEEPS - Sounding of delay beeps then full siren

MAPPING: DISABLED - This is a 1 to 1 relationship between a MotionViewer and the programmable input. When the programmable input is triggered it will force the chosen MotionViewer to take a 10 second Video no matter the current status of the MotionViewer. We suggest that this is only used when using the event types INTRUSION and PANIC or the video will not auto download at the Central Monitoring Station.

MAPPING
CAMERA 1



Parameters		Values			Units
		min.	typ.	max.	
Power	voltage	9	12	15	VDC or VAC
	current	2.2	2.2	/	A
REF+ (V_Piles Signal)	voltage	3.5	12	15	VDC
	current			50	mA
Entry (Arming Inputs 1&2 and Prog Input 1,2 & 3)	Entry Inactive Voltage			~1.0	VDC
	Entry Active Voltage	~1.4	12	15	VDC
	current	1.5		3	mA
		@VIN=9V		@VIN=15V	



When using an external hardwired device that is powered, the ground (negative) wire must be hooked up here.

When using a dry contact one wire must be hooked up here to use Videofied to power the input.

When using the inputs the panel must be powered by 4 Alkaline D-cell batteries and a 12v DC power supply. The power supply must be hooked up to these terminals.



General Configuration - Programmable Outputs

PRODUCT APPLICATION NOTE

Manufactured by RSI Video Technologies

July 2011

The RSI Video Technologies XT series control panels can trigger up to 2 relays hard wired to external devices you would like activated based on an event in the Videofied control panel.

YOU CAN ONLY USE THE OUTPUTS WITH ALKALINE + POWER SUPPLY

Programmable Outputs can be triggered by a specific event, programmable input, or arming input and can stay latched for up to 180 seconds.

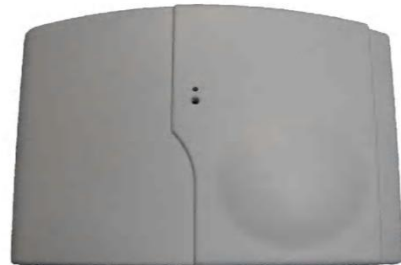
This application note will focus on the configuration and use of the programmable outputs.

Required Products:

XT610 series control panel

CMA601 Alphanumeric keypad

External device that you would like to trigger



Configuration of the programmable Outputs can be found at the following menu location:

With the display showing the date and time stamp along with the current Access Level. You must change your Access Level to 4. RIGHT ARROW to ACCESS LEVEL and press YES, RIGHT ARROW to ACCESS LVL: 4 and press YES. When prompted with BADGE OR CODE enter your installer code + YES.

Using the RIGHT ARROW go to CONFIGURATION and press YES, when prompted with BADGE OR CODE, enter your installer code + YES.

With the display showing GENERAL PARAMETERS press the YES key. Use the RIGHT ARROW and go to PROGRAMMABLE OUTPUTS and press YES. It will now show you OUTPUT 1. Use the RIGHT or LEFT ARROW keys to choose which programmable output you will be using and press YES.

DATE / TIME
DISARMED LVL: 3

ACCESS LEVEL
4

CONFIGURATION

OUTPUT 1

General Configuration - Programmable Outputs

After choosing which programmable output you will be using you will be required to configure the output for triggering event, and features of the output. Press YES on the parameter, and use the ARROW KEYS to change the value and press YES. Use the ARROW KEYS to move to the next parameter.

STATUS: DISABLED

ENABLED - Will activate the output based on the configuration

DISABLED - Output will not be triggered

TRANSMISSION
ENABLED

LENGTH ACTIV: (0-180sec)

ALARM = Appearance of the event only

ALARM/END = Appearance and restoral of the event

ALARM MODE:
ALARM

EVENT TRIGGER TYPE: INTRUSION

The Event type determines the event that is used to trigger the programmable output.

Event Types:

INTRUSION -	SYSTEM ARMED -
TAMPER -	SYSTEM DISARMED -
PANIC BUTTON -	PERIODIC TEST-
INCORRECT CODE -	ALARM CANCEL -
DURESS CODE-	SMOKE DETECTION -
DURESS CODE-	PHONELINE MISS. -
SUPERVISION -	TMT REQUEST -
RADIO JAMMING -	PROGRAMMABLE INPUT 1 -
LOW PANEL BATT -	PROGRAMMABLE INPUT 2 -
LOW DEVICE BATT-	PROGRAMMABLE INPUT 3 -
AC POWER MISS. -	ARMING INPUT 1 -
PANEL RESET -	ARMING INPUT 2 -

EVENT TYPE:
INTRUSION

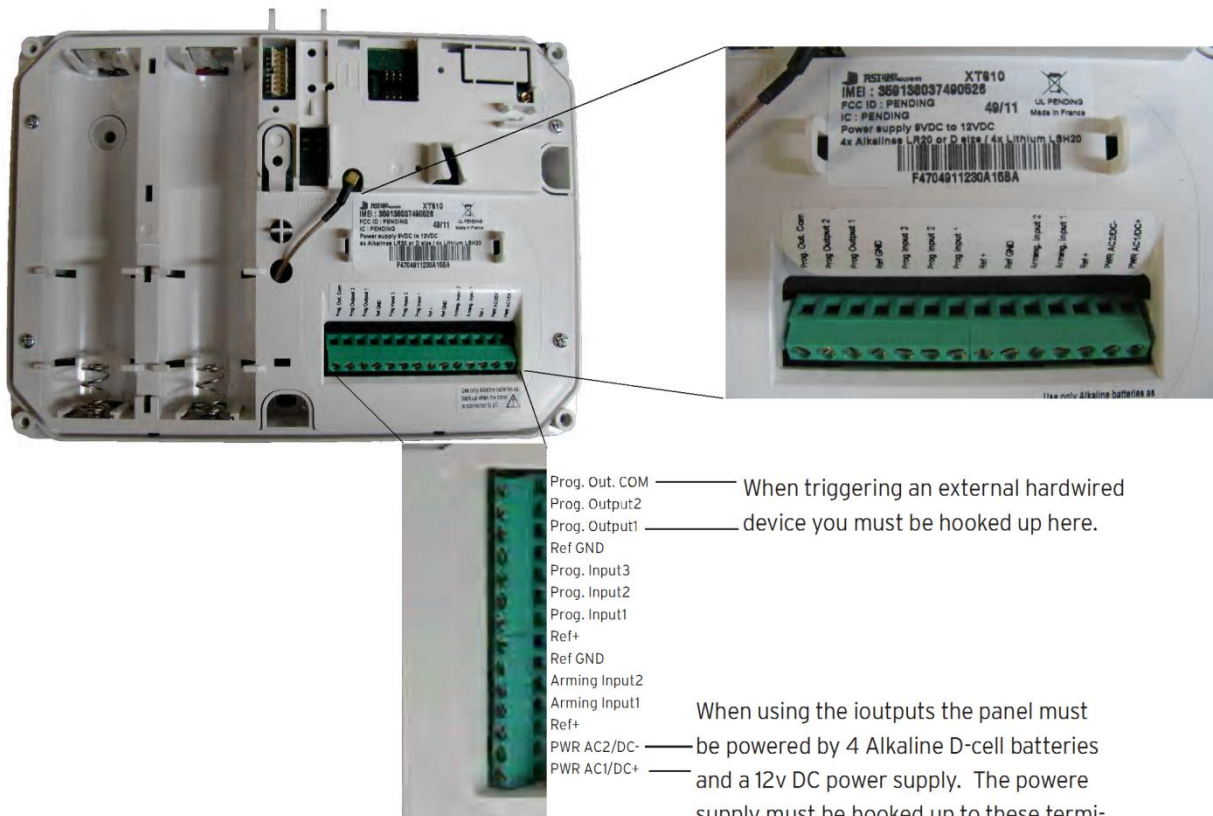
OUTPUT NAME:

Allows you to name the programmable output for identification.

OUTPUT NAME

General Configuration - Programmable Outputs

Parameters		Values			Units
		min.	typ.	max.	
Power	voltage	9	12	15	VDC or VAC
	current	2.2	2.2	/	A
REF+ (V_Piles Signal)	voltage	3.5	12	15	VDC
	current			50	mA
Entry (Arming Inputs 1&2 and Prog Input 1,2 & 3)	Entry Inactive Voltage			~1.0	VDC
	Entry Active Voltage	~1.4	12	15	VDC
	current	1.5 @VIN=9V		3 @VIN=15V	mA





X SERIES - SCHEDULING

PRODUCT APPLICATION NOTE

Manufactured by RSI Video Technologies

April 2011

The RSI Video Technologies X series control panels allow you to enter a seven day schedule by setting upto 99 appointments for arming and disarming the system at specific times on specific days.

The Scheduling feature is only activated on control panel firmware listed V.02.32.00.81 and V.02.32.00.E1 or newer. In order to use the feature you must enable it in the software and configure the required schedules for the job.

This feature can be programmed using the CMA601 keypad or the Frontel TMT Installer program v2.6.6.6 or newer.

Required Products:

XT600/610 series control panel with version sticker V.02.32.00.E1

XL600 series control panel with version sticker V.02.32.00.81

CMA601 - Alpha Numeric Keypad or Frontel TMTi V2.6.6.6.

When installing a system that will utilize the scheduling feature you will need to complete the full initial installation including adding a user code before going into the configuration of the schedule.

The following instructions will explain how to program the Programmable input for mapping video from a MotionViewer when the hard wired panic is triggered.

With the display showing the date and time stamp along with the current Access Level. You must change your Access Level to 4. RIGHT ARROW to ACCESS LEVEL and press YES, RIGHT ARROW to ACCESS LVL: 4 and press YES. When prompted with BADGE OR CODE enter your installer code + YES.



XL VERSION STICKER LOCATION



XT VERSION STICKER LOCATION

DATE / TIME DISARMED LVL: 3
ACCESS LEVEL 4

PRODUCT APPLICATION NOTE: SCHEDULING

Using the RIGHT ARROW go to CONFIGURATION and press YES, when prompted with BADGE OR CODE, enter your installer code + YES.

CONFIGURATION

With the display showing GENERAL PARAMETERS press the LEFT ARROW until you see AREAS AND DEVICES and press YES.

AREAS AND DEVICES

The display will show DEVICES. Press the LEFT ARROW key until the display shows SCHEDULING press YES.

SCHEDULING

With the display showing SCHEDULING OFF press YES and use the RIGHT ARROW to change it to ENABLE and press YES.

SCHEDULING
ENABLE

Use the RIGHT ARROW to move to CALENDAR MANAGEMENT and press YES.

CALENDAR
MANAGEMENT

Display shows NEW ENTRY ? OK/YES or ESC/NO, press YES to create a new action.

NEW ENTRY ?
OK/YES ESC/NO

Use the ARROW KEYS to move the hour that you would like the system to perform its first action. The system uses a 24 hour clock. Press YES when the hour has been chosen. Do the same for the Minute (you will see the two lines above the hour move to the minute after pressing YES).

05:00 OPEN 01---
05:30 OPEN 01

With the lines now over the OPEN, use the arrow keys to choose between OPEN action and CLOSE action and press YES.

05:30 OPEN 01

Now the display shows (1=Mon...7=SUN). To choose the days that this action will take place press the corresponding numbers and press YES.

02:00 OPEN 01
12345 (1=Mon...7=

EXAMPLE: If you want it to happen only on weekdays you would press, 1, 2, 3, 4, 5.

The system will now ask if the action is OK allowing you to double check the schedule you are about to confirm. Press YES if everything looks correct.

02:00 OPEN 01
12345 -- OK?

The display will now show all schedules that have been entered in chronological order. You can use the ARROW KEYS to cycle through them.

02:00 OPEN 01
12345 --

PRODUCT APPLICATION NOTE: SCHEDULING

ADDITIONAL CONFIGURATION OPTIONS

1. To enter a new schedule action with the display showing the current scheduling action press YES and YES again to put in a NEW ENTRY.

2. To modify a schedule action, with the display showing the current scheduling action press YES then RIGHT ARROW to MODIFY ENTRY and press YES.

3. When scheduling is enabled on the panel you can see a S next to the LVL:# on the main screen.

Thur 04/28	16:18
DISARMED LVL :4 S	

4. By default the system will sound arming warnings at 10min, 5min, and 1min. To disable this you will access AREAS AND DEVICES and LEFT ARROW to WARNING BIP ENABLED.

WARNING BIP ENABLED

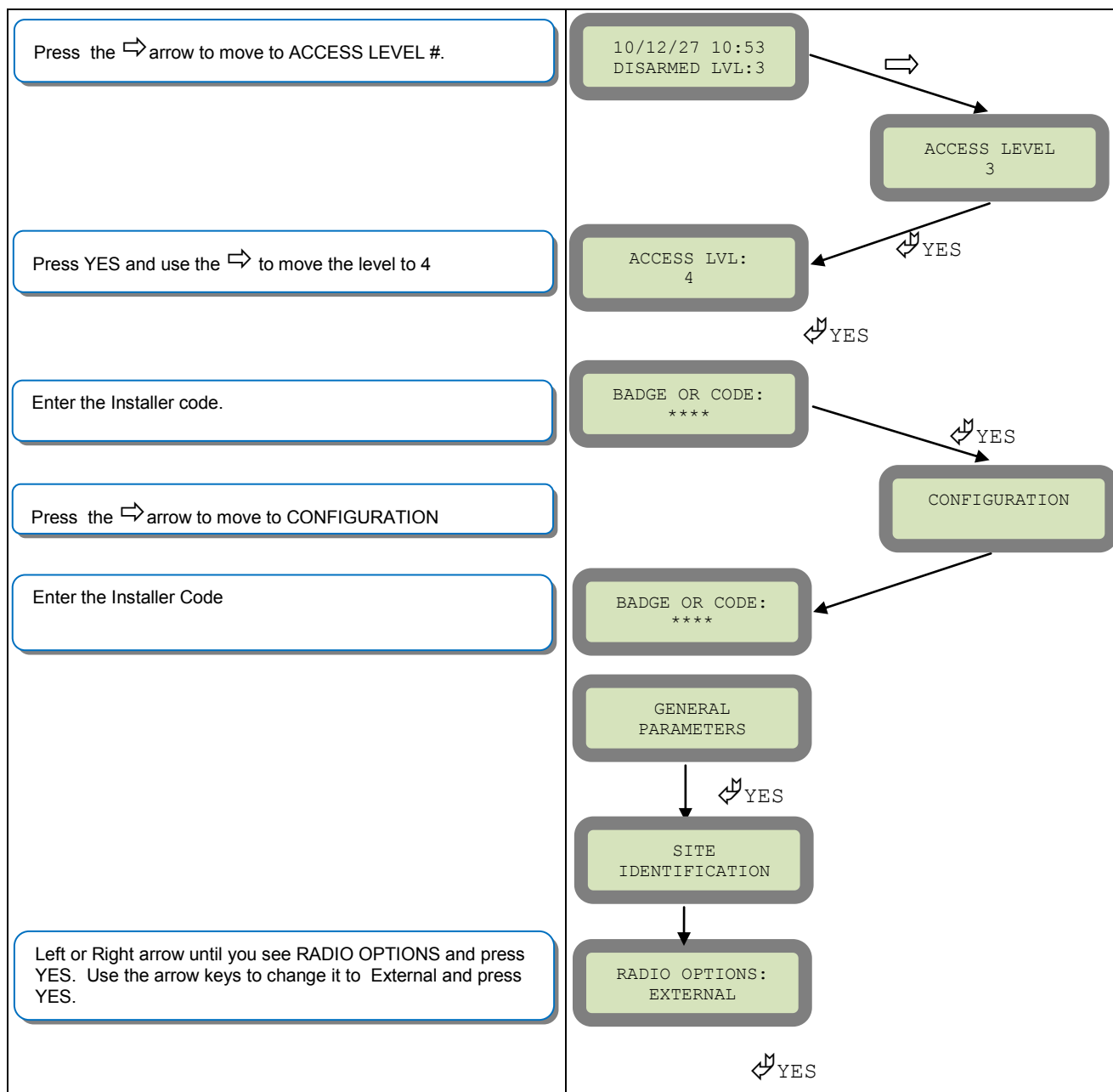
4.1 Press YES on WARNING BIP ENABLED and use the ARROW KEYS to change it to DISABLED and press YES.

WARNING BIP DISABLED

5. When using Frontel TMTiv2.6.6.6. you must add the line
Managelocsched=1
to the Frontel.ini located in the Frontel2/Bin folder in your installation. Once this has been added you must restart Frontel.

How to enable the External RF Antenna

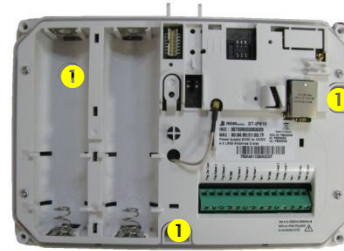
The XTO 600/610 control panels have built in High Gain RF and GPRS antennas. The GPRS external comes pre-activated and hooked up, while the RF antenna is hooked up but needs to be activated in Configuration after you have completed initial programming. The following steps will walk you through how to enable the High Gain RF antenna after initial programming.



How to mount the XTIP and XTXIP

How to Mount the Control Panel?

Fix the back casing on the wall with 3 screws (1)



How to Mount the XTOIP

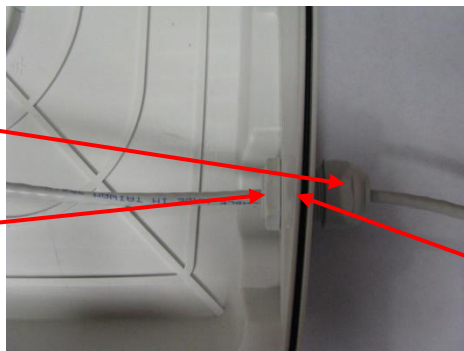
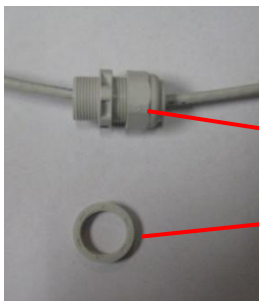
Included Mounting Hardware:

Case and Mounting
Screws, locking
washers, bolts and
nuts.

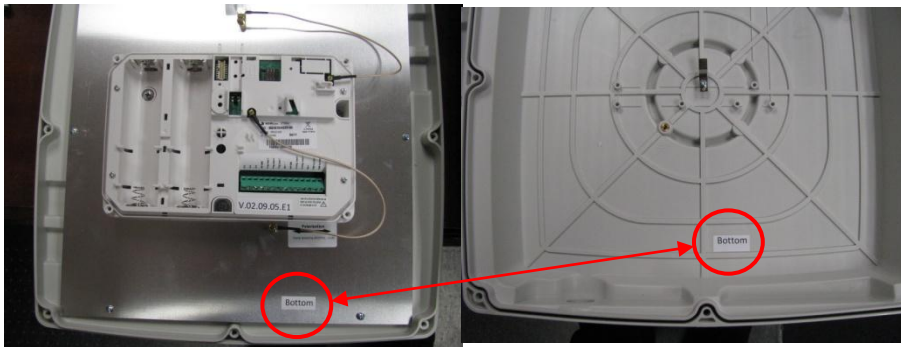


Mounting Brackets

1. Install the Weather Resistant Wire Port.



2. Place the cover on the base.



1. When closing the cover be sure to line up the two BOTTOM stickers face to face.
2. Be Careful not to slide the cover on. Instead come straight down in order to have the cover tamper properly seat.

3. Screw the cover to the base using the provided 8 screws.



4. Place the L shaped mounting bracket onto the base using the provided bolts.



5. Place the two U shaped brackets around the pole and attach the locking bracket. Use the locking washers and nuts to attach the U bracket to the L mount.

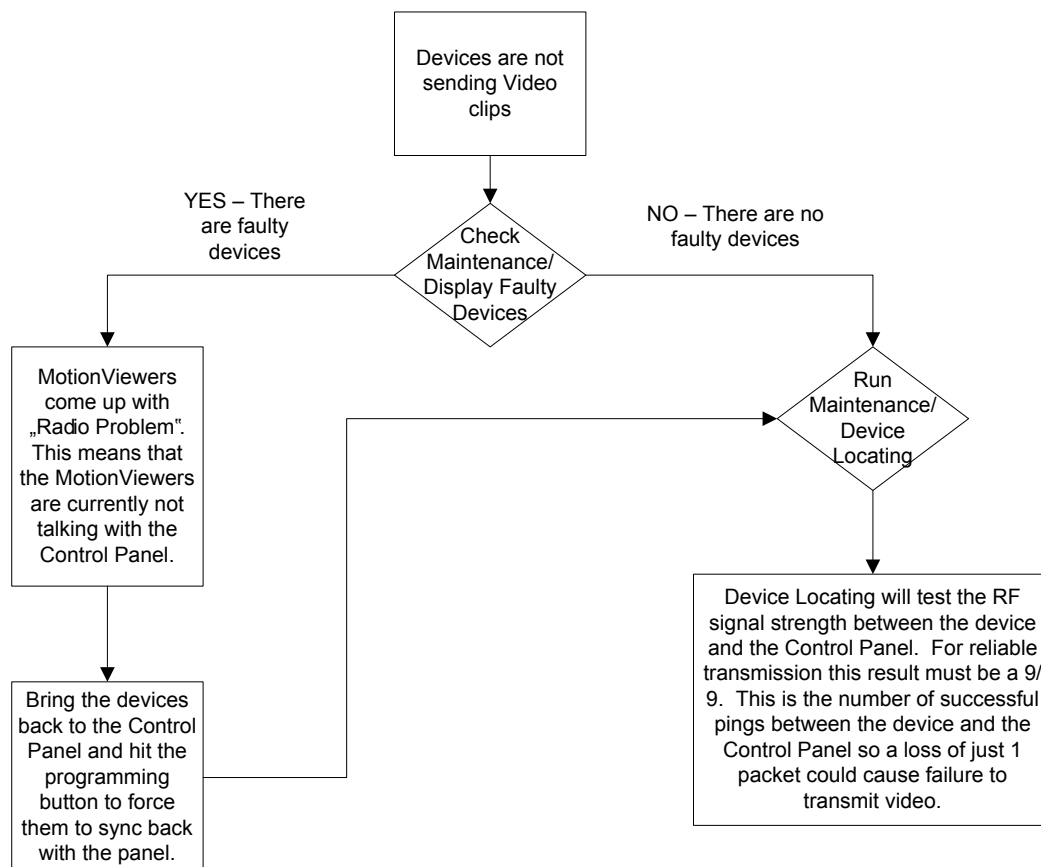


Troubleshooting

Monitoring Station is not getting ANY video but is getting signals:

Good communication between the MotionViewers and the Control Panel is key to getting successful video to the monitoring station. During mounting of any device on your Videofied system you must run the Radio Range/Device Locating test to ensure that the mounting location is with-in range of the Control Panel.

- Concrete, Metal and earth are some of the largest RF inhibitors and should be taken into account when choosing mounting locations.
- When running the Radio Range/Device Locating test you should have the site as close to the same as it would be when the site is closed/no one is there, i.e. close garage doors/service doors, etc. Device locating steps can be found on Page 17.

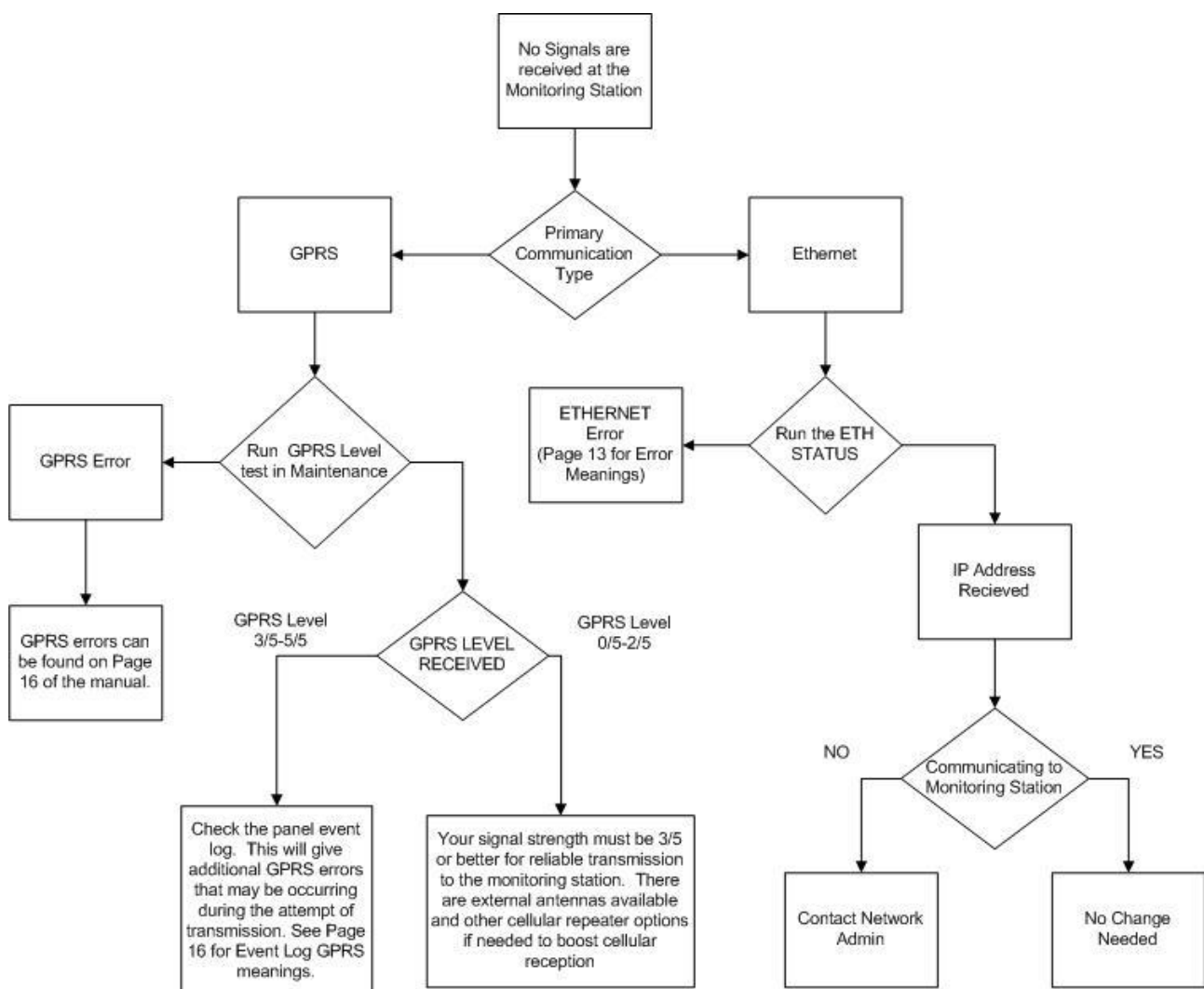


Important Note: Videofied will only automatically download the first MotionViewer video that is taken and only if this is the primary event or reason for the panel connecting with the monitoring station. If the account is on test you will only ever get the first video downloaded. If you are only getting the events at the station and all tests above pass more than likely you are sending a preceding event (like an arming signal or door contact) which will cause the video to not auto download because the video is not the primary event.

Monitoring Station is not getting any signals:

Communication between the Control Panel and the Monitoring Station is either over the Ethernet Connection or GPRS side of the GSM cellular network.

- Go into Maintenance and run the ETH STATUS to see if you receive back an IP Address or error.
- If you receive an IP Address back you will want to contact and consult the network admin to make sure the outbound port is not being blocked (Port 1 programmed in the panel).
- If you are using GPRS as the primary communication, you will want to check your GPRS level to see if there is an error/level is too low. You must have a 3/5 or better for reliable transmission to the Monitoring Station. How to run the GPRS level test and GPRS error codes can be found on page 16.
- If you receive a successful GPRS level test you will want to check the panel event log for more GPRS errors that could be occurring during the attempted transmission but after cellular authentication.



Panel is staying CONNECTED WITH MONITOR STATION

While the Control Panel is attempting or is connected with the Monitoring Station you will see this message when you attempt to move around on the keypad. If the system is not successful in connecting with the station it will retry the connection multiple times, locking you out of programming until it is done trying. This normally can take anywhere between 15-20 minutes.

- If you want to force the panel to disconnect you must
 - 1. Remove the batteries from the control panel
 - 2. Secure the cover tamper of the panel
 - 3. Re-insert the batteries into the control panel and sync the keypad back by pressing the CLR and ESC/NO buttons at the same time.
 - 4. Access the Configuration menu by changing you access level to 4 and go to Configuration Monitor Station.
 - 5. In Monitoring Parameters – Disable monitoring until the connection issue is resolved.

Unable to record device or getting „Pairing Failure“error

This usually occurs when the device still has a pairing key from a previous system or setup. To perform a pairing key override:

- 1. Remove all batteries from the device.
- 2. Make sure your system is ready to record devices:
 - A. If learning in the keypad, press the panel's programming button. DO NOT HOLD THE PANEL'S PROGRAMMING BUTTON
 - B. If learning in additional devices, make sure the keypad reads „Press Programming Button Of Device“
- 3. Insert a single battery into the device.
- 4. Wait 1 second for device to power up.
- 5. Press programming button of device (for keypads press „CLR“ & „ESC/NO“ keys at the same time)

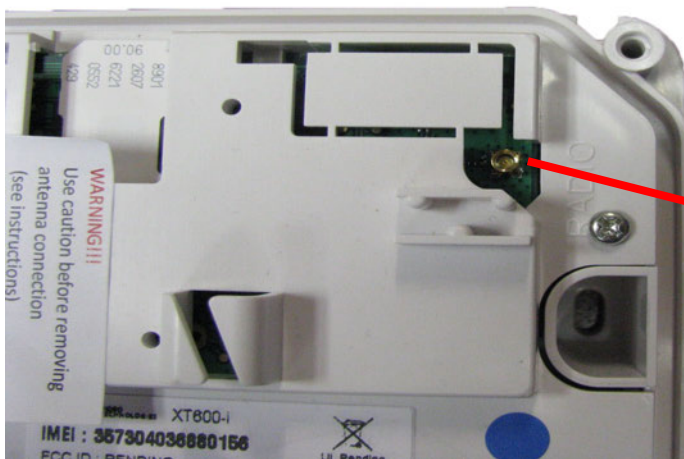
For the 4-button remote keyfobs the process is slightly different:

- 1. Press and hold the „ON“ and „OFF“ keys at the same time for 12 seconds
- 2. Wait 1 second
- 3. Press and hold the „ON“ and „OFF“ keys at the same time for 5 seconds, you should hear 4 beeps from the keyfob.

The RSI - XT600 Series Control Panel can have its' transceiver radio antenna externally connected to a high-gain 900MHz Omni-directional antenna. For outdoor installations the control panel should be mounted in a NEMA 4-X enclosure for protection from the elements. Any additional range seen is dependent on the local noise floor, distance between devices, obstructions such as metal barriers, etc.

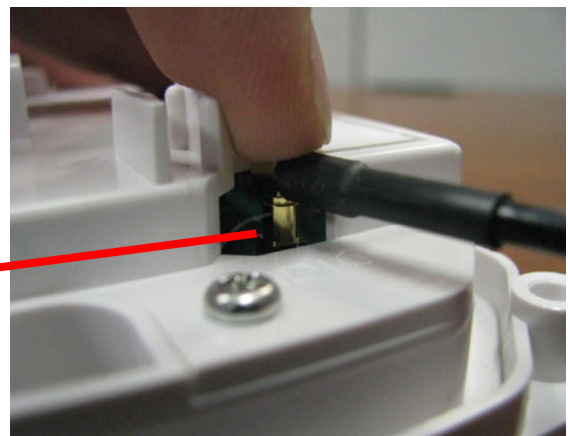
Note: This modification will not cure all RF range problems

Before you begin, be aware of static discharge as it can damage certain circuit board parts. It is recommended to wear a static wrist guard that is properly grounded when working directly with RSI electronics.

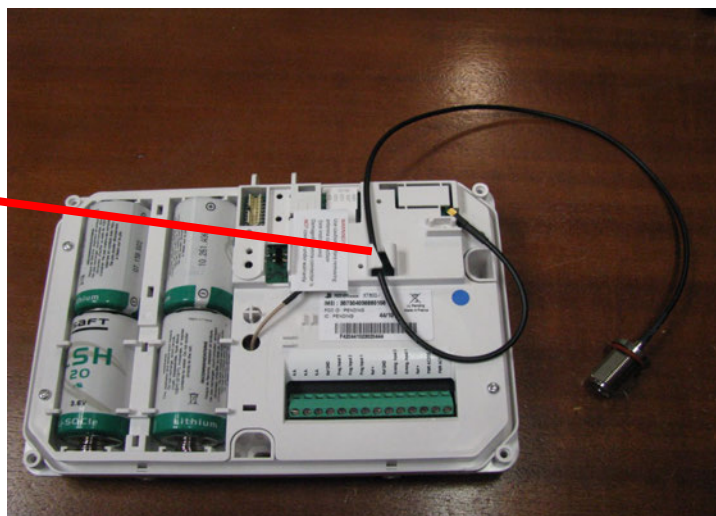


19" Pigtail Right-angle MMCX plugs in the 'RADIO' location on the XT Control Panel. This plug must not get loose or you will lose reception.

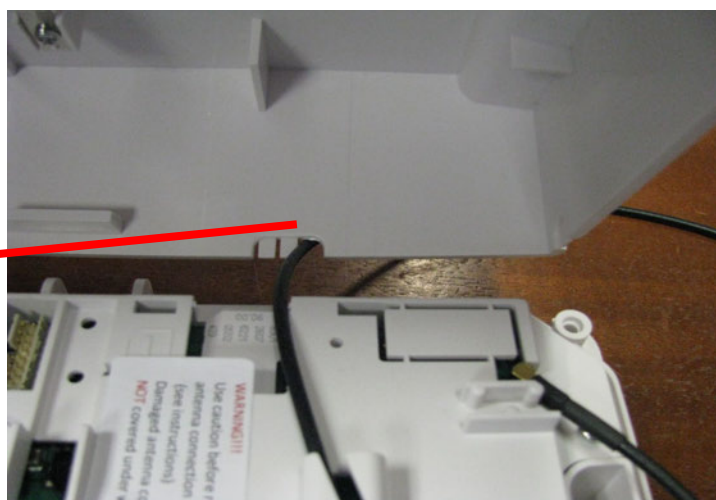
When plugging in the connector you must be careful to press straight down in order to make a proper connection.



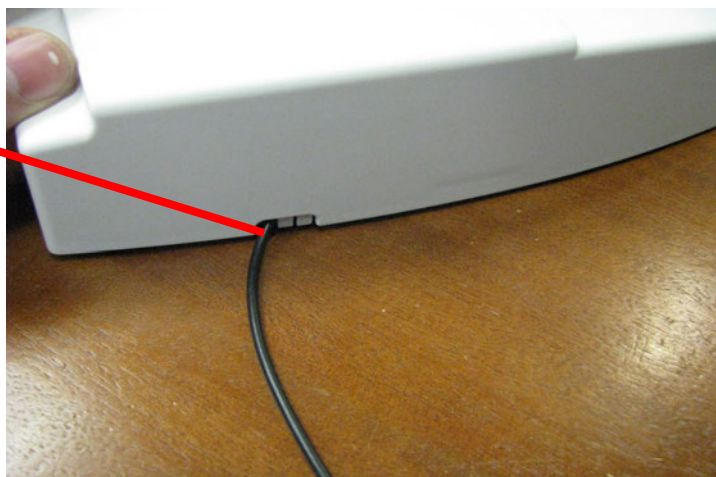
Run the cable along the panel and loop it back through the cable management slot and down the outside of the panel.



Remove a single tab from the cover of the XT control panel in order to not pinch the cable.



Carefully place the cover on the control panel making sure that the cable is not going to be pinched anywhere.





FULL ASSEMBLY INSTRUCTIONS

1. Remove the control panel top cover by removing the two screws on the side. **DO NOT INSTALL THE BATTERIES**
2. Plug in the MMCX end of the 19" pigtail onto the 'RADIO' connection on the panel and feel it snap into place. (Page 1)
3. Route the new mini coax cable down and back up the middle through the cable management slot (Page 2)
4. Remove a single tab from the cover to allow the cable through without being pinched
5. Place the cover on the control panel to test that the cable is routed correctly and nothing gets pinched.
9. Visually inspect your work for any damage to the coax cable.

NOTE: Radio range tests will be at a limited distance until the antenna is turned on in programming

HOW TO TURN ON THE EXTERNAL ANTENNA

1. From the DISARMED LVL, press the RIGHT arrow to move to ACCESS LEVEL # and press YES
2. Use the RIGHT arrow to move the level to 4 and press YES
3. With the display showing BADGE OR CODE, enter the installer code + YES
4. Press the RIGHT arrow key to move to CONFIGURATION and press YES
5. With the display showing BADGE OR CODE, enter the installer code + YES
6. Display shows GENERAL PARAMETERS, press YES
7. Display shows SITE IDENTIFICATION, press the LEFT arrow until you see RADIO OPTIONS and press YES
8. Use either arrow key to change the parameter to say EXTERNAL ANTENNA and press YES
9. Press and hold the ESC/NO button for 5 seconds to bring you back to the main screen

Parts List:

CA-3N010- 10' 240 Series N-Male to N-Male Coax - L-Com Technologies
HGV-906U - 6dBi Omni Directional 900MHz Antenna
CA-MMNFBCN19 - 19" N-Female to MMCX Mini Coax - L-Com Technologies

The Yagi-Directional, GPRS remote antenna is shown right. This is used to gain signal strength in areas where there is little to no cellular coverage.

The RSI- XT Series control panels (XT600, XTX600) can have its' GPRS Modem Antenna externally connected to a high gain 30 degree focused directional antenna. Any additional range seen is dependent on the local noise floor, distance to the cellular tower, obstructions (metal, earth, concrete, etc.) The XTO600 already has a High Gain GPRS antenna hooked up but does have the capability of adding the Yagi GPRS antenna.

Note: This modification will not cure all cellular range problems.

To do this, some fabrication must be done to the RSI control panel to connect a 19" pig-tail coax with MMCX connector to the Cellular Modem in the control panel. *Note: This task requires a good level of electronic / mechanical skill.*

Before you begin be aware of static discharge, this will damage circuit board parts. Wear an anti-static wrist guard that is properly grounded.

There is a bulkhead female "N" connector that has a 19" pig-tail and small - Diameter coax with a right - angle MMCX make jack that needs to be plugged into the mmcxi receiver jack on the control panel labeled 'GPRS'.

You must first remove the old cell modem antenna. It unplugs from the Control Panel marked GPRS, pull it straight up using a needle nose pliers, **FIG-A**.

Carefully plug the new 9" pig-tail coax MMCX male connector into the GPRS MMCX female on the Control Panel, **FIG-B**. Run the coax back around and through the cable management and out the back of the panel.

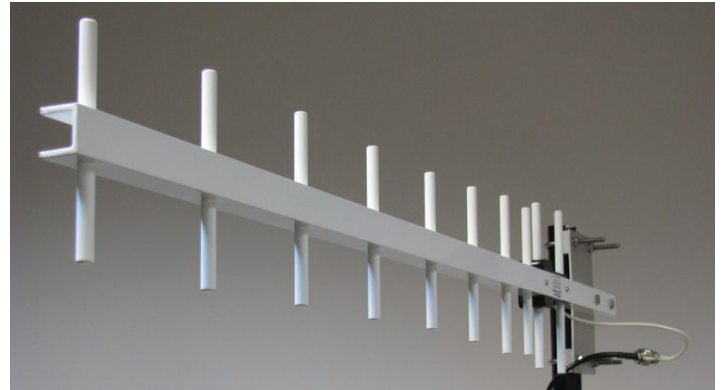


FIG-A

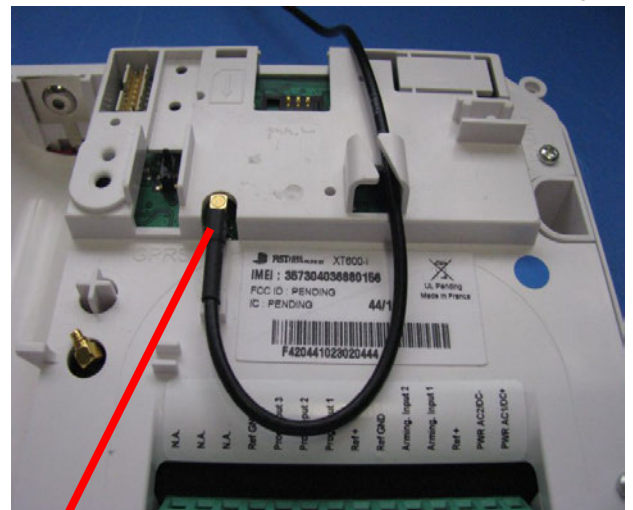


FIG-B

Right - angle MMCX plug location, this plug must not get loose or you will lose reception. You will run the Coax through the cable management provided on the panel in order to properly route the coax so it does not get pinched.

Remove the tab on the cover for the panel in order to allow the coax through without being pinched.



When connecting the pigtail to the MMCX jack on the Control Panel you will feel it 'click' into place.

No Gap = Okay



FULL ASSEMBLY INSTRUCTIONS

1. Remove the control panel's top cover by removing the two screws on the side. **DO NOT INSTALL THE BATTERIES**
2. Remove the existing GPRS antenna by using a needle nose pliers and lifting it straight up, FIG A.
3. Replace the antenna with the 19" pigtail connector. Be sure that you feel it 'Click' into the connector.
4. Run the coax back around through the built in cable management, FIG B.
5. Visually inspect the coax cable and MMCX connector making sure that they are not damaged and still plugged in throughout the process.
6. Remove one tab from the cover to allow the coax to route through so that it is not pinched when the cover is placed onto the panel.
7. Carefully close the middle cover and screw it back together.

Parts List:

- CA-NMNMT010 - 10' 240 Series N-Male to N-Male Coax -
- HG912Y-NF - 14dbi Directional Yagi Antenna -
- CA-MMNFBCN19 - 19" N-Female to MMCX Mini Coax -

Description

The XTXIP control panel is an extended temperature, wireless, battery operated, hybrid alarm system. It is designed for residential, small business security applications, as well as both indoor and outdoor commercial applications (construction sites, cell towers, remote sites, substations...) where the location of the panel is unconditioned but protected from the elements and has Ethernet (IP) or GPRS connection.

The panel includes the choice of many different configuration options including the following:

- > Arming by Videofied Peripherals, Schedule, Virtual Keypad, or existing alarm system.
- > Power the system by Power Supply + Battery Backup or standalone battery (up to 4 years).
- > Communicate over Ethernet + Cellular Backup, Ethernet Only, or Cellular Only.
- > 24 wireless zones for Videofied Peripherals plus 3 Programmable input zones for hardwired devices.
- > Choose between the Internal RF antenna or switch to an External RF antenna option.
- > 2 Hardwired outputs.
- > Virtual Keypad arming and disarming from Smartphone.
- > Operating temperature from - **-20 to +68C**

Security

With two modes of transmission, Ethernet and GPRS, the XTIP panel ensures maximum safety. In case of Ethernet connection loss, the XTIP panel will switch to GPRS (if enabled) to transmit alarms and videos.

Supervised Wireless Technology

The XTXIP, along with all Videofied devices, utilize patented S2View® - Spread Spectrum, AES Encrypted Wireless technology, providing optimum signal integrity and security. Bi-directional RF communication paths between all system devices and the system control panel assure high signal reliability. Integrated RF and GPRS connections allow for addition of external antennas for increased performance.

The panel supervises every device (excluding the remote keyfob) to validate current open/close state, tamper condition, serial number, date of manufacture, firmware revision, and battery status.



*** When using the XTIP panel with the Ethernet connection or SMS Arming you must use a 12v 2A Power Supply with 4 Alkaline battery backup (PP4)***

Control Panel Videofied **XTXIP**

Compatibility The XTXIP works with all the following Videofied wireless devices:



Indoor MotionViewer - integrated PIR motion detector, night vision digital camera, infrared illuminators. MotionViewers detect intruders and capture a 10 second video of the intrusion which is sent to the panel over RF.



Outdoor Badge Reader with Prox-Tag - Allowing Arming/disarming of the system from outside the premises. The Prox-Tags are standard Mifare badges.



Door Contacts - detect door and window open/close activity. An external input allows a wired connection from standard security switches and detection devices outputs.



Outdoor MotionViewer - integrated PIR motion detector, night vision digital camera, infrared illuminators. MotionViewers detect intruders and capture a 10 second video of the intrusion which is sent to the panel over RF.



Exterior Sirens/Strobes - provide alarm sounds and visual identification of alarm site for responding authorities.



Remote Keyfobs - allow limited system operation and panic alarm capability in a portable, convenient package.

Features

- › Video Verification - video resolution of 320 x 240 pixels, 0 lux sensitivity, 5-frames per second for approx. 10 seconds total recording time. 220K MPEG file.
- › Up to 25 Wireless zones/devices
- › Mapping feature to trigger a video upon activation of a programmable input
- › 3 programmable inputs
- › 2 programmable outputs to activate third party devices on site (smoke cloak, gates, strobes, sirens, etc...)
- › 2 dedicated on-board connectors to extend the GPRS coverage and the radio coverage
- › 4 Areas with 2 special arming mode and partitions
- › 20 user codes or Badges
- › 4.000 Events history log
- › Power : 12VDC with Alkaline batteries for back-up (up to one month of back-up)
- › Built-in RJ45 for Ethernet transmission to report to your Monitoring Station in the Frontel protocol
- › Built-in GPRS transmitter to report to your Monitoring Station in the Frontel protocol

Electrical Data

Power Requirements (Option 1) Must be used when using

Ethernet Communication or SMS-Arming APP	12v DC / 2A
Back up	4 Alkaline 1.5v DCell, LR20
Battery life (estimated)	Up to 1 year

Power Requirements (Option 2) - Will not work with Ethernet or SMS-Arming APP

	4 SAFT LSH20 Batteries
Battery life	Up to 4 years
RF technology	S2View®
Radio type	Spread Spectrum Bidirectional

Operating frequency	920Mhz
Transmission security	AES encryption algorithm
Supervision	Panel polls devices every 8 minutes
Antennas	Integrated
Tamper detection	Base and Cover Tamper
Operating temperature	-20 to +68C
Maximum relative humidity	95%, non-condensing
UL listings	1023 (applied for)

Wired Arming Inputs	2
Dry Contact option	Yes
Inputs Voltage	2VDC (15v max)
Inputs Current	2 mA max

Programmable Wired Inputs	3
Dry Contact	Yes
Inputs voltage	12VDC (15v max)

Programmable Wired Outputs	2
Max switching voltage	220VDC / 250VAC
Max switching current	4A
Max switching power	120VA

Programming

	Alphanumeric Keypads or Frontel Installer Software
Devices per system	24 per system + 1
Access Codes	19 maximum + 1
Security Levels	3
Arming modes	2
Areas	4 (area1 predefined from factory entry/exit delayed. Areas 2,3 & 4 programmable)

Communication Formats	GPRS / Ethernet
Protocols	Frontel Only
Installer Codes	One (for system programming only)
Special arming modes	4 (Area 1 predefined)
Communication Formats	IP
Communicator type	GPRS and Ethernet
IP Stack	IP, TCP/IP
Remote Maintenance	Frontel Installer Protocol only
Video Transmission	By Frontel protocol to Central Monitoring Station
Video Format	MPEG video file
Video file size	220 Kbytes
Video Framing	5 frames/second
Image format	JPEG
Image Resolution	320x240 Pixels
History/Event Log	4,000 Stored events

Physical Data

Material	ABS-ULVO
Dimensions	(LxWxD) 9" x 7" x 2-1/16"

Installation/Mounting

Control Panel/Base	Two screws secures control panel cover to base. Three screws secure control panel base to wall
External Antenna	2 Built in MMCX connectors to extend the GPRS and RF range

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