



## Description

The XTO-iP GPRS alarm panel is a Videofied® weatherproof, wireless, battery operated security system. The control panel is designed for outdoor commercial applications (constructions sites, cellular towers, remote sites, substations...). The box is water-resistant and temperature-resistant.

The control panel is powered by 4 LSH20 Lithium batteries that last up to four years, with normal system activity.

A dual-tamper function is active 24 hours, whether or not the system is armed. An alarm occurs if the control panel cover is removed, or if the control panel is removed from the mounting surface.

The user can arm and disarm the system by entering his code on the external keypad. A radio antenna is built in the system.



## Supervised Wireless Technology

The XTO-iP series, along with all Videofied devices uses patented Wiselink® - Spread Spectrum, Videofied, Interactive, AES Encrypted Wireless technology, providing optimum signal integrity and security.

Bi-directional RF communication between all system devices and the system control panel ensures high signal reliability.

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

## Features

- > Wiselink® : Spread Spectrum, Videofied, Interactive AES Encrypted Wireless technology provides optimum signal integrity and security.
- > Compatibility : works with all Videofied® wireless devices.
- > Supervision of all devices (except remote keyfob).
- > Tamper detection : 24-hour dual-tamper function provides detection for both cover and wall removal. Control panel also monitors all system device tamper switches.
- > Zones / Devices : 25 maximum.
- > Areas : 4 maximum. Area 1 predefined from factory for entry/exit delay. Areas 2, 3, and 4 can be configured as needed.
- > Access codes : 20 maximum, 4 - 6 digits; one installer access code for on-site programming only.
- > Configuration/Programming : on-site using alphanumeric keypads.
- > Communication : reports to central monitoring stations using Frontel.
- > 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.
- > History/Event Log : maximum 4,000 events stored in flash memory that cannot be cleared or erased.



## Configuration/Programming

Complete system configuration/programming can be done on-site using alphanumeric keypads. Easy to understand text on a two line, 16-character liquid-crystal (LCD) display guides you through programming, prompting you for simple yes/no or data entry responses. Complete punctuation symbols allow for accurate website/IP address entries and device location naming.

## Communication

The XTO-iP reports alarms and other system events by using the Frontel protocol. Frontel provides complete system reporting information and video verification to a central monitoring station set up with the Frontel alarm receiving software.

## Video Verification

Incorporating MotionViewer™ into the security system allows for video verification of intrusion alarms.

When the system is armed and an intruder trips MotionViewer™, the integrated camera captures a 10-second digital video clip which is sent to the central monitoring station by the control panel, which can forward them to an alert list.

## History/Event Log

The XTO-iP control panel records and stores all system activities and events (armings, disarmings, alarms, access codes entered, system programming changes, etc.) in flash memory, that cannot be cleared or erased.

The log accumulates a maximum of 4,000 events. As additional events occur, the control panel automatically deletes the oldest event. This ensures the most recent events reside in the log.

The history/event log can be viewed using an alphanumeric keypad or downloaded at the monitoring station.



# XTO-IP ALARM PANEL SERIES

## ELECTRICAL DATA

Power requirements (option 1)	
Power supply Type B	9-12 V / 1.2 A
Low voltage limit	5.15 V
Backup	6V with 4 x 1,5 V D Alkaline batteries /LR20
Low battery limit	4.2 V
Battery life (average)	1 year
Average current consumption (over 1h)	450µA
Max current	1.2 A

Power requirements (option 2, not available for Ethernet)	
Power supply type C	14.4V with 4 x 3.6 V Lithium batteries /LSH20
Low battery level	12 V
Average battery life	4 years

RF Wiselink® technology	
Radio type	Bidirectional RF
Operating frequency	868MHz - XTO-iP210 (Europe, South Africa, Asia) 865-867MHz - XTO-iP310 (India) 902/928MHz - FHSS – XTO-iP 630 (USA, Canada, South America) 915/928MHz - FHSS – XTO-iP 730 (Australia, South America) 902/907.5MHz & 915/928MHz – FHSS – XTO-iP 830 (Brazil)
Transmission security	AES encryption algorithm
Radio jam detection	Yes
Supervision	Yes
Radio antenna	Integrated
External radio antenna	Option with MMCX connector

Tamper Detection	
Tamper	Wall and cover tamper detection

## BOX

Physical and Environmental Data	
Operating temperature	-25°/70°C
Maximum relative humidity	95%, without condensing
International Protection Marking	IP54 / IK06
Material	ABS—ULV0

Installation / Mounting	
Control panel / Base	4 screws to close the cover 4 screws on panel base for brackets mounting

Dimensions	
Panel	272 mm x 276 mm x 96mm

## TRANSMISSION

Communicator	
Communicator type	2G & LAN Ethernet (XTO-iP 210) 3G & LAN Ethernet (XTO-iP 630/730 830)
2G frequencies	850 / 900 / 1800 / 1900 MHz
3G frequencies	800/850(B5), AWS1700(B4), 1900(B2) (XTO-iP 630) 800/850(B5), 900(B8), 2100(B1) (XTO-iP 730) 800/850(B5), 900(B8), 2100(B1) (XTO-iP 830)
Security protocol	Frontel
IP stack	TCP/IP
Video transmission	By Frontel protocol to central monitoring station or App servers
2G3G Antenna	Integrated
External 2G3G antenna	Option with MMCX connector

Programmable wired inputs	
Number	3
«Dry» contact	Yes
Input voltage	12 VDC (15VDC max)
Programmable wired outputs	
Number	2
Max switching voltage	24VDC /30VAC
Max switching current	1A
Max switching power	30 W

Video	
Video Format	WMV or MPEG
Images per second	5
Image size	320x240 pixels
Video length	4 to 12 seconds

Miscellaneous	
Programming	Keypad
Max number of devices	24
Max number of codes/badges	19
Arming modes	4
Areas	4
Event log	4000 events stored on flash memory

# XTO-IP ALARM PANEL SERIES

## STANDARDS AND CERTIFICATIONS

XTO-IP 210		868 MHz
Europe		Compliant with Directive 2014/53/EU for RED Radio Equipment Directive Intertek LSS (EN50131-2-2) Id: 16LHK0199-01
XTO-IP 310		865/867 MHz
India		Certification in process
XTO-IP 630		902/928 MHz - FHSS
Argentina		Certification number C-17498
Canada		RSS-132, Issue 3, RSS-133, Issue 6, RSS-139, Issue 3, RSS-247, Issue 1 Id: 8816A-XTO6
Columbia		Certification number : 2016866829
Costa Rica		SUTEL 10029-2017
Mexico		IFT Certification number RCPSISI17-0298
Panama		Certification number : 1709
Peru		Certification number TRRFM38411 «En Perú, este equipo diseñado para la banda de 902-928MHz, debe ser configurado para operar solo en la banda 915-928MHz con una PIRE de hasta 1W (30dBm) y sujeto a las Condiciones de Operación que establezca el MTC.»
USA		FCC Part 15C, FCC Part 22H, 24E, 27 Id: X46XT06

XTO-IP 733		915/928 MHz - FHSS
Australia		C-Tick

XTO-IP 830		902/907.5 MHz & 915/928 MHz
Brazil		Certification Number 006231-16-10210  Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

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