XtelAlert – Alarm, Control and Logging
Reliability is everything!

Unattended Site Voice Callout Unit

Environmental damage, equipment repair and lost production at remote or unattended facilities can be detrimental to your business. The **XTelAlert (XTA)** voice callout unit can assist you in reducing or eliminating these losses by providing you and your staff with reliable advanced warning, remote control and diagnostic trend information.

The **XTA** reduces your solar power and cabinetry installation costs because it is designed for low power consumption and harsh outdoor environments where there is the threat of lightning, power surges, and extreme temperature swings.

Features and Benefits

The **XTelAlert (XTA)** and **XtelAlert Plus (XTA-Plus)** are robust state-of-the-art data and voice alarm monitoring/logging/control units that reliably monitor remote or unattended assets.

- Local programming and usage is easy with the built-in speaker/keypad. The local keypad keystrokes and the telephone keystrokes are the same, reducing confusion and operator training.
- XTA can be programmed over the telephone using a Touch-Tone telephone or with a personal computer and modem, eliminating the requirement for costly site visits.
- Removable terminal blocks allow for quick installation and easy operation.
- Ideal for industrial and solar powered applications where extreme temperatures (-40 to +60C), lightning and ESD and unreliable or no commercial power are common. The XTA is designed with three stages of lightning protection and five stages of power surge protection to reduce failures and repair costs.
- **XTelAlert** can be upgraded to **XtelAlert Plus** permitting growth for your future needs.
- Supports popular serial communication in master or slave mode allowing easy interface and data interchange with your existing SCADA, DCS, PLC, VSD or serial sensors.
- Alarm callouts can be processed over telephone, cell phone, satellite phone, 2-Way radio, pager or locally, thereby contacting personnel wherever they are located. Alarm status interrogation can be remotely performed at any time by staff with a simple call to the unit, reducing expensive site visits and providing peace of mind.
- A 32 number telephone directory and 9 call list sequences easily provides 9 shift changes with minimal user programming.
- Associative alarm to call list mapping sends alarms to selected phone numbers, eliminating alarm calls to unnecessary groups of staff.

Capability	XTA	XTA Plus
Binary Alarm Inputs	8	16
Control Outputs	2 - 3*	4 - 5*
Analog Inputs 4-20 mA	3	12
RTD Input – 100 ohm	-	1
Frequency Input	-	1
RS 232	1	2
RS 485	-	1
Temperature Sensor	1	1
Microphone	1	1
Power Configurations		
12VAC/DC	Y	Y
24VAC/DC	Y	Y
120VAC with adapter	Y	Y
Backup Battery Options		
1.2 Amp-hour	Y	Y
12 Amp-hour	Y	Y
Solar 100 Amp-hour	Y	Y
Data Options		
Data Logging	Y	Y
Internal Modem	Y	Y
Windows Interface	Y	Y
Associative Callout	Y	Y
Power/Temp. Report	Y	Y
DF1 protocol	LL	Y
Modbus Protocol	LL	Y
DGH Protocol	LL	Y
Other Protocols	LL	Y
LL = Landline only		
*PTT as control output		

- User programmable site identification, 8 user recordable labels and hundreds of built in labels are available for assignment to any alarm input or output, making alarm reports clear and specific.
- Output relays can be programmed to automatically activate when binary or analog inputs exceed specified limits, providing an easy means of warning staff or protecting equipment.
- Data logging in either a circular or linear log provides the user with valuable historical information concerning digital alarms or analog signals such as flow, pressure, temperature, level etc.
- Internal or external microphone allows remote monitoring of local noise sources to give user listen-in capability.
- Internal **XTA** diagnostics test the incoming power voltage, internal battery condition, processor reset state and ambient temperature to notify personnel if there is any necessary maintenance to achieve maximum reliability.

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XtelAlert XTA Specifications

Binary Inputs 16	Min. Isolation to Power Supply	500 VAC
	Loop Current- Max. Internally Supplied	1.5 mA
	Loop Voltage- Max. Internally Supplied	21 VDC
	Max. Loop Resistance (loop closed status)	30 kΩ

Analog Inputs 13	Default Current Range	0 or 4 to 20 mAmp
	Jumper Options for Each Input	0-1V, 0-5V, 0-10V

RTD Input	RTD Type	100 ohm platinum

Frequency Input	Frequency Rate	0 to 1 kHz
	Voltage Range	1 to 12 V
	Measurement	Periodic frequency or pulse width

Control Outputs 4	Isolation to Power Supply	2500 VAC
	Off / On Resistance	> 10 MΩ / 0.5 Ω
	Max. Control Voltage	35 V
	Max Control Current	2000 mA

Serial Ports	RS232	TX, RX, RTS, CTS, DCD, 300 to 19.2kBaud
	RS485	Full or half duplex, 300 to 19.2kBaud
		RS485 port can be optioned for RS232

Radio Port	TX Audio	Unbalanced AC coupled - 0dbm
	RX Audio	Unbalanced 100kΩ AC coupled - 0 to –20dbm
	PTT	Isolated Solid State Relay – 60 mAmp contact
	COS	Polarity and Level settable from 0 to 12VDC
	VSWR	Level settable from 0 to 12VDC

Voice Labels	Unit Identifier Record / Duration	1 Label x 4 Sec
	Label Record / Duration	24 Labels x 2 Sec
	Drop Down List Label Record /Duration	100 Labels x 2 Sec

Internal Modem	Type	Bell 212, 202, 103
	Available	On Telephone or Radio port

Data Options	Protocols	Modbus, DF1, DGH
	Data Logging	Rolling and Cumulative
	Status Reporting	Battery/Power Voltage, Temp.

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Programmable Features	Telephone Numbers	32 numbers x 32 digits
	Callout Sequences	9 sequences x 32 numbers
	Rings to Answer	1 to 9
	Security Access Code	4 digit
	Binary Alarm Type	N.O. or N.C.
	Analog Alarm Limits	High and Low
	Analog Hysteresis	Lower and Upper Range
	Alarm Debounce	0 to 99 minutes
	Alarm Acknowledge	1 to 9 hours
	Automatic Relays	Alarms or Levels
	Relay Types	Latching or Momentary
	Modbus, DF1 registers	100 integer or 32bit float
	Modbus, DF1 type	Master or Slave
	Data Logging Type	Linear and Circular
	Data Logging Inputs	100 Binary or Analog
	Logging Hysteresis	Lower and Upper Range
	Logging Deviation	Settable in Eng Units
	Word Library	Selectable for All Labels
	Associative Callout	Selectable for all alarms

Connectors	Binary Status and Control	DB25 Female
	Analog, Binary Status and Control	DB37 Female
	Radio Interface, External Speaker, and Remote Keypad	DB25 Male
	CDMA Digital Cellular	AnyData iPort 1x cellular to DB 9 on spring cage
	Telephone	RJ11 Jack
	Power	3-prong, 0.156 in. male Molex
	Terminal Block	Spring cage on TS 35 rail

Local	Speaker	0.25Watt, 8Ω
	Microphone	-69dB Electret
	Keypad	Tactile response 12 digit
	Status Indicators	16 LED indicators
	Temperature Sensor	Ambient -40 to +60 C
	Internal Battery Option	12VDC 1.2 Ah

Primary Input Power	Operating Voltage Range	10-35 VDC, 8-24VAC
	With Internal Battery Backup	22-35 DC; 16-24 AC
	Current @ 24 V (min/max)	50 mA / 315mA
	Standards Met or Exceeded	CSA C22.2-225

Operating Environment	Temperature Range	-40 to +60 C
	Humidity	0 to 95% non-condensing

Physical	Size	8.5in x 10.63in x 2.75in
	Weight	3Kg (c/w battery)
	Construction	16 guage cold roll steel
	Finish	Red Glossy Baked Enamel

Approvals	CSA/NRTL	CSA C22.2 - 0-M1991, 0.4-M1982, 950-M95 UL Std # 1950 (3rd)
	FCC / IC	IC CS-03 Part 1 FCC Part 68 and 15 Class B

The **XTA** was designed to allow easy integration of new features, and as such, Xtel International Ltd. is always interested in customization and OEM requirements. Please call **Xtel International Ltd** to discuss your applications

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XtelAlert XTA - Reliability Is Everything!

A versatile, alarm callout, data logging, remote control device!
<u>Made in Canada</u> for Northern Winter & Southern Summer!

Asset Management & Protection

- **Monitors equipment operational status 24 hours per day 7 days a week**
- **Automatic alarm notification to support and operations personnel**
- **Corrective action and response easily communicated back to remote location**

XTA's are currently used in:

- **Production Facilities**
- **Pipelines & Pumping Stations**
- **Tank Farms & Storage Compounds**
- **Well Sites & Reclamation Sites**
- **Communications Sites**
- **Power Generation Sites**
- **Weather Stations & Airports**
- **Air Conditioning & Heater Units**
- **VFD Monitoring & Control**
- **Building Security & Safety**
- **Anywhere that you have remote or unattended valuable assets**

Xtel is committed to supplying cost effective, INNOVATIVE, reliable, state-of-the-art technology backed by knowledgeable service.

- **4 Binary Inputs standard**
- **Expandable to 16 Binary Inputs, 13 Analog Inputs, 1 RTD Input, 1 Frequency Input, 4 Outputs (+9 Outputs using Modbus), 3 RS232 / RS485**
- **Data Logging**
- **100 Modbus, DF1, or DGH Registers**
- **Continuous Upload to website to view real time data!**
- **Works With: Satellite, Land Line, Cellular, Two-way Radio,**
- **32 phone/pager #'s & 9 shift sequences**
- **Answering service simple for lone worker**
- **Selective calling based on the alarm feature**
- **Locally or remotely programmable**

An XTA can enhance production, increase site security and provide worker safety!

For more information or to purchase an XTA, please call: