



TAC Xenta 527

Security Router with Web Server

The TAC Xenta 527 is a cost-effective solution to monitor, control and dynamically view TAC Security components using standard Vista or I/NET software. The TAC Xenta 527 allows you to receive alarms and messages, acknowledge alarms, perform basic point control, including modifying set points, time schedules and trends, all via the standard TAC Vista graphical interface. Configuration is performed using the TAC XBuilder programming tool. The TAC Xenta 527 also includes the Net Plus Router (NPR) function.

The TAC Xenta 527 can act as a Xenta server for a LonWorks network or a TAC Vista Security network in TAC Vista.

TAC Xenta 527 web server is equipped with a help function that facilitates daily operation.

The TAC Xenta 527 can also communicate with Modbus devices.

PERFORMANCE

I/NET Network

The TAC Xenta 527 has the capability to supervise a network of TAC Vista Security controllers.

The throughput for a single TAC Xenta 527 is determined by the amount of polling the device is managing. Polling is created mainly by

- Points on open graphics pages
- The scan rate of connection objects
- The volume of alarm and event traffic

The physical size of the connected I/NET system is a factor in this but is not a primary limitation.

In some systems therefore more than one TAC Xenta 527 may be required to handle the total system traffic.

The TAC Xenta 527 *web server* has been tested with up to 1,000 TAC Vista Security points.

Trend Viewer

The capacity for trend logging objects is a maximum of 300 objects for each TAC Xenta 527 web server. Up to 200,000 values can be logged.

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TECHNICAL DATA

Supply voltage 24 V AC $\pm 20\%$, 50/60 Hz or 19–40 V DC

Power consumption max. 5 W

Transformer sizing 5 VA

Ambient Temperature

Storage $-20\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F}$ to $+122\text{ }^{\circ}\text{F}$)

Operation $\pm 0\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ ($+32\text{ }^{\circ}\text{F}$ to $+122\text{ }^{\circ}\text{F}$)

Humidity max. 90% RH non-condensing

Mechanical

Enclosure ABS/PC

Enclosure rating IP 20

Flammability class, materials UL 94 V-0

Dimensions see Fig. 1

Weight 0.2 kg (0.44 lb.)

Real Time Clock

Accuracy at $+25\text{ }^{\circ}\text{C}$ ± 12 minutes per year

Power failure protection 72 h

Communication

A: RS232 2400 – 57600 bps, RJ45, 8-p

A: RS485 2400 – 57600 bps, async. terminal block

B: RS232RJ10, 4-p

C: RS485 sync. (SDLC) terminal block

LonWorks TP/FT-10, terminal block

Ethernet TCP/IP, 10Base-T, RJ45

Agency Compliances

Emission:

CE EN 61000-6-3

C-tick C-Tick N1831

FCC FCC Part 15, Subpart B, Class B

Immunity:

CE EN 61000-6-2

Safety:

CE EN 61010-1

UL 916 C-UL US Listed

RoHS directive 2002/95/EG

Part Numbers

TAC Xenta 527 007308200

Terminal part TAC Xenta 400 007309020

TAC Xenta: Programming Serial Kit 007309200

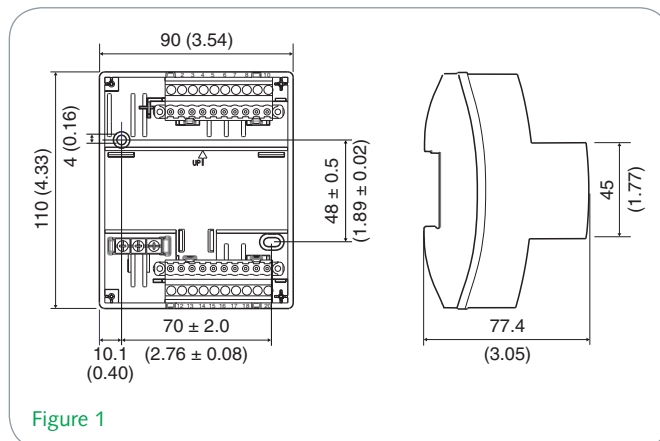


Figure 1

Alarm

The TAC Xenta 527 web server can supervise 300 internal alarm objects. The TAC Xenta 527 has been tested to deliver to Vista Server up to a maximum of 15 I/NET alarms/events/transactions per second or 1.3 million per day. The maximum burst can be up to 40 per second for 8 seconds.

Time Schedules

The TAC Xenta 527 web server can handle 50 time objects with 50 week and 50 holiday schedules in each.

WEB INTERFACE

TAC Xenta 527/527-NPR uses a web interface to configure network, time, servers and ports among others.

CABLES

G and G0: Min. cross-sectional area 0.75 mm² (AWG-19).

C1 and C2: TAC Xenta 527 web server communicates on a joint network, LonWorks TP/FT-10, 78 kbps.

SECURITY

TAC Xenta 527 uses a secure interface for configuration with user name and password logon.

The TAC Xenta 527 supports configurable I/P level encryption and I/P level filtering when being used in a security network.

DESIGN AND MOUNTING

The TAC Xenta 527 is designed around a microprocessor. The device consists of two parts, a terminal including the terminal block, and the electronics with the circuit boards and contacts (fig. 2).

Power Outage Protection

Settings, like configuration and web pages, are stored in the non-volatile (flash) memory and will not be lost after a power outage.

Real Time Clock

The clock provides the internal event log with a time stamp. A built-in capacitor maintains operation of the clock for at least 72 hours in the event of a power failure. This real time clock can be configured to synchronize with the TAC Vista Server and automatically adjust for day light saving changes.

Mounting

The TAC Xenta 527 is cabinet mounted on a TS 35 mm norm rail EN 50022.

To simplify installation, the terminal can be pre-mounted in the cabinet, (fig. 2).

If the TAC Xenta 527 is to be wall mounted, a wide range of standardized boxes are available.

INSTALLATION/CONNECTION

Modular Jacks

- RS232 A: Modem connection. Connection using hardware signals for modem communication.
- RS232 B: PC ("Console") connection. Connection using basic signals, primarily intended for a PC during configuration.
- 10Base-T: Connection for a LAN (Ethernet) cable and commissioning.

Terminal Connections

Term.	Term. No.	Description Name
1	G	24 V AC (or DC+)
2	G0	Ground
3	C1	LonWorks TP/FT-10
4	C2	LonWorks TP/FT-10
5	RX/TX+	RS485 A
6	RX/TX-	RS485 A
7	RX+	RS485 A
8	RX-	RS485 A
9	G0	
10	Fail-safe	
-		
-		
19	RX/TX+	RS485 C (SDLC)
20	RX/TX-	RS485 C (SDLC)

CONFIGURING

The TAC Xenta 527 web server is configured using the TAC XBuilder software.

SNMP

TAC Xenta 527 can communicate using Simple Network Management Protocol (SNMP) which allows the exchange of management information between network devices. It is part of the TCP/IP protocol suite.

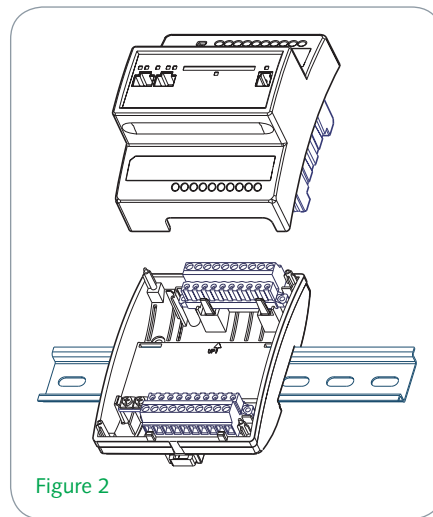


Figure 2

ACCESSORIES

Serial Communication

For installing the TAC Xenta 527, cable kit

007309200 is needed, ordered separately.

Modem Connection

For connecting the TAC Xenta 527, cable kit 007309160 is needed, ordered separately.

Cable

The TAC Xenta 527 is connected to the Ethernet network with a standard UTP-cable or a standard STP-cable.

MODBUS COMMUNICATION

The TAC Xenta 527 can communicate with Modbus devices using:

Serial interface (RS485 or RS232), as a Master with a maximum of 31 Slaves connected; or as a Slave.

Modbus TCP through the 10Base-T port, as a Modbus TCP client. A maximum of 100 Modbus TCP Servers can be connected.

Port configuration is done in TAC Xbuilder.

Device Editor

The Device Editor, which is included in the TAC Xbuilder installation, is used to define the data exchange with connected devices. Reusable device templates are created for the device types.