



TAC Xenta 555

Web Server for MicroNet and Satchnet Controllers and Networks

The TAC Xenta 555 is a multifunctional presentation system with a built-in (embedded) web server. It offers MicroNet and Satchnet users a feature rich web solution by providing secure web browser access to MicroNet and Satchnet controllers and networks.

Monitoring, energy management, alarm annunciation, logging, scheduling and point overrides are all accessible via an easy to use and intuitive graphical user interface.

VisiSat and TAC XBuilder programming tools enable speedy configuration and engineering.

The Xenta 555 can also act as a Xenta server for Lonworks and has in-built connectivity to Vista. This option provides an unsurpassed and integrated solution for building management and security.

The full range of MicroNet and Satchnet controllers and Bus du jour networking options are supported.

MicroNet is an easy-to-use, scalable and modular building automation system for the control of HVAC plant and associated building services. It offers unique benefits for small to medium sized buildings and complexes.

MicroNet users can choose the communications platform best suited to their business: NCP, ARCNET or LonWorks.

TAC Xenta 555 can also act as a Modbus TCP Client and communicate with Modbus TCP Servers.

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 1200 – 38400 bps, RJ45, 8-p

A: RS485 1200 – 38400 bps, async. terminal block

B: RS232 RJ10, 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 555 007308250

Terminal part TAC Xenta 400 007309020

TAC Xenta: Programming Serial Kit 007309200

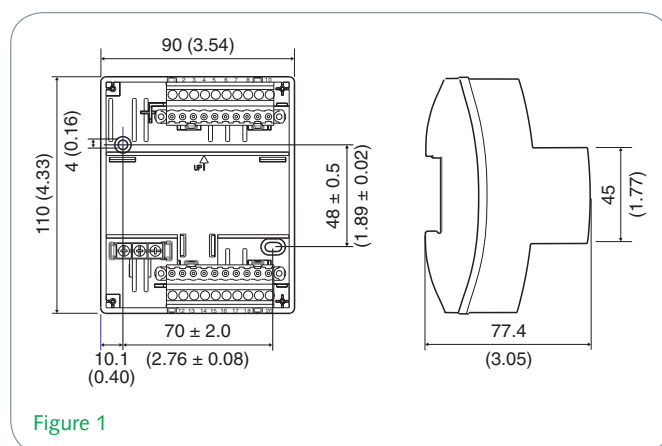


Figure 1

COMPATIBILITY

- VisiSat v.2.1 or later
- TAC XBuilder v.5.0 or later
- TAC Vista v.5.0 or later (optional)

SUPPORTED CONTROLLERS

- MN50 Series – MN350, MN450, MN550 and MN650 – including LON, NCP, XCOM and ARCNET variants
- MN300, MN440, MN500 and MN620 in NCP, ARCNET and LON bus du jour variants
- Unifact Pro series
- Associated MN-MI, LCD and TS displays

Satchnet controllers:

- MMC3601 and MMC4601
- Unifact
- IAC400, IAC420, IAC 600 and IAC Touchscreen

WEB INTERFACE

TAC Xenta 555 has been optimized for Microsoft Internet Explorer Version 6.0 or later.

CABLES

- G and G0: Min. cross-sectional area 0.75 mm² (AWG-19).
- C1 and C2: TAC Xenta 555 web server communicates on a joint network, LonWorks TP/FT-10, 78 kbps.
- Belden 9502 for MN50 Series.
- Belden 8762 for other MicroNet controllers.

SECURITY

TAC Xenta 555 uses a secure interface for configuration with username and password logon.

The TAC Xenta 555 supports configurable I/P level encryption and I/P level filtering when being used in a security network.

DESIGN AND MOUNTING

The TAC Xenta 555 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 555 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 555 is to be wall mounted, a wide range of standardized boxes are available.

INSTALLATION/CONNECTION

Modular Jacks

- RS232 A: MN-MI connection for ARCNET (MN-MI is mandatory)
- 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 NCP or SNP
6	RX/TX-	RS485 A NCP or SNP
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)

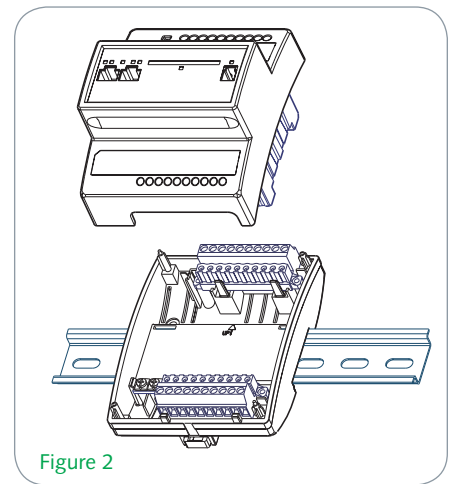


Figure 2

CONFIGURING

The TAC Xenta 555 web server is configured using the TAC XBuilder software.

SNMP

TAC Xenta 555 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.

ACCESSORIES

Serial Communication

For installing the TAC Xenta 555, cable kit 007309200 is needed, ordered separately.

MN-MI Connection

For connecting the TAC Xenta 555, cable kit 007309200 is needed, ordered separately.

Cable

The TAC Xenta 555 is connected to the Ethernet network with a standard UTP-cable or a standard STP-cable.

MODBUS COMMUNICATION

TAC Xenta 555 can act as a Modbus TCP Client and communicate with Modbus TCP Servers using the 10Base-T port. 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.