



WS400

Ultra Compact Remote Terminal Unit



WS400

Designed for outside plant and small facility applications, the WS400 is an environmentally hardened solution for remote alarm management where space is at a premium. Featuring an extended temperature range and low power consumption, remote management, and distributed reporting; the WS400 brings situational awareness from the network edge to the entire organization.

For over 30 years, Westronic has provided the telecom industry with an extensive portfolio of alarm management solutions suitable for any environment. The WS400 provides a cost-effective approach for smaller remote sites or outside plant environments.

Features include a variety of northbound protocols, discrete alarms can be viewed at a glance and local devices can be connected to the network with serial pass-through making the WS400 a flexible and highly adaptive solution for network management.

Features and Benefits

Fully Featured

- Compatible with all the major Network Management Systems
- Distributed reporting
- Serial pass-through or terminal server functionality
- Low power consumption
- SNMP, TL-1, TABS, TBOS northbound interfaces

Flexible

- Compact wall mount form factor with moisture shield.
- Extended temperature range for extreme cold or hot weather
- Wire wrap termination is also available

Provisioning Made Easy

- Visual LED display for Discrete Digital Inputs and Outputs
- Remote and Local Firmware management
- Remote and Local configuration management
- 50 pin CHAMP style connector is pin to pin compatible with legacy Westronic products





WS400 Specifications

Chassis

CPU:	16 bit, 40 MHz x86 Microcontroller
Power (V):	-48VDC [-24VDC available on request]
Power Consumption:	35-40mA idle, <75mA maximum @ -48VDC
Operating voltage range:	-40 to -60 VDC

Wallmount

- Dimensions (HxWxD): 7.6" x 10.2" x 1.4"
(19.30 cm x 25.90 cm x 3.55 cm)
- Weight: 2.3 lbs (1.05 kg)
- Termination Interface: 50 pin AMP connector or Wire wrap posts

LED indicators:	Power, CPU Run, LAN activity, all Discrete Inputs and Control Outputs
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Discrete I/O Module

Discrete Inputs:	8 opto-isolated.
Protection:	Sustain maximum transient voltages of 15 kV per Telcordia GR1089
Ground:	Common ground for all inputs
Sampling Rate:	40 Hz
Input voltage:	Referenced to -48V DC
Input current:	~1.0mA for each input
Logic Levels:	0 (Off) -15V DC through -48V DC (nominal voltage) 1 (On) -7V DC through +5V DC (nominal voltage)
Discrete Outputs:	2
Relay Type:	SPDT Form C
Operation Types:	Latched or momentary. Momentary duration is programmable from 400 through 999 milliseconds
Contact Ratings:	0.5 Amps at 60 VDC 0.3 Amps at 110 VDC 30 Watts (maximum) switching power

Communications

Serial Ports:	1 user configurable RS232/RS485 port (RJ11) and 1x RS232 Craft port (RJ45)
Ethernet:	1 Ethernet port (10BaseT-RJ45)
Miscellaneous:	Telnet, TL-1 management interfaces

General Specifications

Storage Temperature:	-40 ⁰ F to +158 ⁰ F (-40 ⁰ C to +70 ⁰ C)
Operating Temperature:	-40 ⁰ F to +158 ⁰ F (-40 ⁰ C to +70 ⁰ C)
Relative Humidity:	5% to 90 % non-condensing

Firmware

Northbound Protocols

- SNMP (includes re-trap method to resend current alarms)
- TL-1
- TABS (Serial and IP)
- TBOS

Miscellaneous

- Serial pass-through functionality (terminal server)
- Total History is 40 alarm and system records with a First In, First Out rollover scheme.
- Firmware version query and download
- Configuration version query, upload and download

Warranty and Support

- Two year parts and labor
- Unlimited support