Westronic

WS1800

Remote Terminal Unit

Designed for small facility applications, WS1800 flexibility can meet any remote alarming and monitoring needs. Featuring an extended temperature range and low power consumption, remote management, and distributed reporting; the WS1800 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 WS1800 provides a cost-effective approach for smaller remote sites or outside plants.

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 WS1800 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

- Rack mount or compact wall mount form factors available
- Extended temperature range for extreme cold or hot weather
- Available with 16 or 32 opto-isolated Discrete Inputs

- Optional mid-point battery alarm
- Wire wrap termination is also available
- Ability to add carrier board (Ethernet switch, modem, etc.)

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

WS1800 Specifications

Chassis

CPU:	16 bit, 40 MHz x86 Microcontroller
Power (V):	-48VDC (-24VDC available on request)
Power Consumption:	35-40mA idle, <100mA maximum @ -48VDC
Operating voltage range:	-40 to -60 VDC

Rackmount

- Dimensions (HxWxD): 1.75" x 17.38" x 7.5" (4.45 cm x 44.15 cm x 19.1 cm)
- Weight: 5.1 lbs (2.31 kg)
- Termination Interface: 50 pin AMP connector

Wallmount

- Dimensions (HxWxD): 7.63" x 10.19" x 1.13" (19.38 cm x 25.88 cm x 8.08 cm)
- Weight: 2.6 lbs (1.2 kg)
- Termination Interface: 50 pin AMP connector or Wire wrap posts

LED indicators: Power, CPU Run, LAN activity, all Discrete Inputs and Control Outputs

Discrete I/O Module

Discrete Inputs:	16 or 32 opto-isolated. NOTE: Wallmount with Wire wrap option limited to 16 inputs.
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 or 4
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

Analog Input (Optional)

Channels: 8 total, configured by License key that can be used to monitor

- 4 Battery Strings with MPBM alarm or
- 3 MPBM alarm plus 2 individual measurements of either 0 – 60 VDC or +/-100mV operations (user configurable)

Temperature & Humidity: 1 onboard temperature sensor (standard)

External Temperature and Humidity sensor (Optional, maximum 3)

Communications

Serial Ports:	1 user configurable RS232/RS485/Dial-up Modem port (RJ11) and 1x RS232 Serial/Craft port (RJ45)
Expansion Serial Ports:	4 individually configurable RS232/RS485 ports (RJ45)
Ethernet:	1 Ethernet port (10BaseT-RJ45)
Miscellaneous:	Telnet, TL-1 management interfaces

General Specifications

Storage Temperature:	-40° F to +158° F (-40° C to +70° C)
Operating Temperature:	-40° F to +158° F (-40° C to +70° 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

Certifications and Standards

- NEBS 3 Certified

Warranty and Support

- Two year parts and labor
- Unlimited support