

Remote Monitoring System

The system is a robust, full-featured, web-enabled, Ethernet I/O module with two 15-Amp relays to control power outlets & two 1-Amp relays for low voltage devices, four optically- isolated digital inputs for door ajar alarm, surge suppressor status and Power Supply status, etc., One temperature sensors. It has non-volatile memory for logging, a real-time clock with support for NTP (time server) synchronization and an advanced full-calendar scheduler which can be used to turn on/off relays at preset times. Its web-based user interface makes it easy to set-up and use.

The system has many advanced features such as the ability to initiate a connection to remote servers, BASIC programming, SNMP, email alerts, peer-to-peer communications, internal monitoring, graphing, etc.

The system has Built-in web server so relays and inputs can be controlled and monitored using a web browser (or use our CBW Mobile smartphone app). Additionally, temperature and humidity data can be graphed directly from any HTML5 compatible web browser.

Setup is simple; No app to download, no subscription to buy, no software required, and no programming necessary for setup or use.

Features:

- Four electro-mechanical relays two 15 Amp two 1 Amp
- Four optically-isolated inputs (shared ground)
- One-wire bus for temperature sensors.
- Highly configurable almost any combination of input/relay control possible.
- Real-Time Clock with NTP server synchronization.
- Automatic daylight savings and leap year adjustment.
- Full calendar scheduling with 100 programmable events.
- No software required.
- Customizable web-based control page. BASIC script support for advanced flexibility. Configurable logging.
- Graphing (logged data)
- Send email alerts based on user-defined conditions.
- Static or DHCP IP address configuration. XML, Modbus/TCP, and SNMP interface options.
- Field updatable.
- Removable 14-Terminal connector for easy installation.
- Rugged DIN-Rail/wall-mountable enclosure.



Power Requirements: Voltage: 120 VAC

I/O: 4 Relays, 4 Inputs

Four Relay Contacts:

(2) Max Voltage: 28VAC,24VDC Max Current: 1A(2) Max Voltage: 240VAC,Max Current: 15A

Optically Isolated Inputs:

Input Voltage Range:11-28VDC Current: 4.7-25mA Minimum Hold Time (high or low): 20ms Maximum Count Frequency: 25Hz Max (Dependant on Configuration) Input Functions: Monitor State, Control Relays, Control Remote Relays, Count, High Timer

Digital Temperature Sensors:

Dallas Semiconductor DS18B20 Temperature Range: -55°C to +125°C Accuracy: ±0.5°C (from -10°C to +85°C)

Temperature Sensor Functions:

Sensor Functions: Thermometer, Thermostat, Relay Control, Remote Relay Control, Email Alarms, SNMP Traps, Temperature Logging

Real-Time Clock:

Manual or NTP(Network Time Protocol) setup NTP Sync Period: Once, Daily, Weekly, On Powerup Auto Daylight Savings Adjustment Battery (capacitor) Power Backup

Capacitor Power Backup:

Backup Functions: Retain Real-Time Clock, External Variables, Relay State, and Counters Backup Duration: 3 days minimum

Network: 10/100 Base-T Ethernet Port

Connectors: Network: 8-pin RJ-45 LED Indicators: 7 -Module Powered -Relay Coil Energized 1-4 -Network linked -Network activity

Physical:

Operating Temperature: -22° to 149°F (-30° to 65°C)

Monitor/Control:

Web Browser, XML, Modbus/TCP, SNMP, Remote Services, Data Logging and Graphing

Logging:

Storage: Nonvolatile Flash Buffer Architecture: Circular Buffer Log file size: 512K (max 28,829 logs) Unlimited data storage from Web Monitoring Service

Advanced Features:

BASIC interpreter Remote services Avoid most firewall issues with outbound connection to Web Services

Password Settings:

Password protection on setup page: Yes Password protection on control page: Optional Password Encoding: Base 64 Max password length: 13 characters