

Xytronix Research

The X-300™ web based temperature logging with programmable thermostat.

First, the X-300™ is a powerful web-based temperature logging instrument that allows you to monitor and control temperatures via an IP network.

Up to 8 temperature sensors can be connected at a time, and temperatures can be viewed in real-time using a web browser. In addition, the X-300™ has many advanced features including email alerts, relay control, a BASIC interpreter, and much more.

Second, the X-300™ is a 7-day programmable web-enabled thermostat. Users can adjust and set temperatures for heating and cooling systems and view current indoor and outdoor temperatures from any web browser. As a web-enabled thermostat, it provides an attractive control web page that works great on desktop computers as well as advanced telephones such as the iPhone® mobile digital device.



Features

- Web-browser based - no software required
- Email alerts
- Three, 3-Amp relays
- Field updatable
- Built-In real-time clock w/ capacitor backup
- Temperature Logger
- Supports HTTP, TCP, SNMP, Modbus/TCP
- Supports additional data logging and management from web services
- Internal temperature and voltage monitoring for diagnostics
- Wide operating temperature range
- Removable terminal connector for convenient wiring
- Compact, DIN-Rail mountable enclosure
- DIN Rail mount
- CE Labelled

Thermostat control web page shown on iPhone®. (iPhone® not included.)

Web-Enabled Temperature Logger

- The temperature logger can receive data from up to 8 sensors
- Supports BASIC scripts for advanced configuration

Web-Enabled Thermostat

- Attractive thermostat user interface
- Connect up to 2 sensors (indoor and outdoor)
- 7 day programming schedule
- Connect to single stage heating/cooling system



Partnumber: X-300I-PS12

Unit with 12V Power Supply and one Sensor
Relay ports, 3 x SPDT
Rating, 3 Amp @ 28 volts
Sensor ports, 1-8
Power supply, 12 volt
Rating, 9-28 VDC

MBG Elektronik AB, Box 1199, 251 11, Helsingborg
Tel. 042-13 60 60, 08-667 00 00 Fax 042-18 74 97
www.mbg.se

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Specifications

Power Requirements

Voltage:

5V±5%(-5 model or -E model)

9-28VDC (-I models)

Current: 530mA Max

Power Over Ethernet Option: POE Class 1
(0.44 to 3.84 Watt)

I/O

3 Relays, Up To 8 Temperature Sensors

Relay Contacts

Max Voltage: 28VAC, 24VDC

Max Current: 3A

Digital Temperature Sensors

Dallas Semiconductor DS18B20

Temperature Range: -55C to +125C

Accuracy: +/-0.5C (from -10C to +85C)

Temperature Sensor Functions

Sensor Functions: Thermometer, Thermostat,

Relay Control, Remote Relay Control, Email Alarms,

SNMP Traps, Temperature Logging

Real-Time Clock

Manual or NTP setup

NTP Sync Period: Once, Daily, Weekly

Auto Daylight Savings Adjustment

Battery Backed: Internal Capacitor Backed

Network

10/100 Base-T Ethernet Port

Connectors

Power/Inputs: 14-Position Removable

Network: 8-pin RJ-45

LED Indicators: 6

-Module Powered

-Relay Coil Energized 1-3

-Network linked

-Network activity

Physical

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

Size

1.41in (35.7mm) wide

3.88in (98.5mm) tall

3.1in (78mm) deep (not including connector)

Weight: 5oz (142 grams)

Enclosure Material: Lexan 940

Flame rating UL94 V0

Monitor/Control

Web Browser, XML, Modbus/TCP, SNMP,

Remote Services->Remote Monitoring and Data Logging

Logging

Storage: Nonvolatile Flash

Buffer Architecture: Circular Buffer

Log file size: 200K (max 4655 logs)

Unlimited data storage from Web Monitoring Service

Operating Modes

Temperature Monitor

Thermostat

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