

Overview

Esense have network access via Mobile, SNMP, WEB and Telnet using 10/100 Base Ethernet. The system has a Graphical Display unit to display the configurable server Names, Temperature & Humidity Level and system supports external 8 configurable sensors.



Features & Benefits

- Monitor and manage server room environmental and security conditions end IP.
- Create alarm signals with customized input parameters.
- Live view and control threw LAN, internet and mobile (anywhere, anytime).
- Alerts & status are posted in database log, which is accessible through Web user interface. The log can be downloaded.
- Automated four output relays for control of cooling fan tray.
- Ethernet interface by assigning an IP address for each system.
- Redundant power supply and 1-hour battery back-up Alerts are sent when there is a power outage and when power returns.
- Uses a single Web interface for all systems connected.
- Visual status indications for Temperature, humidity & server names threw the Graphical LCD. High sensitivity.
- Smoke detection 1RU rack mount case is standard.
- Compact 1U x 19" chassis mounting Biometric finger print access (Optional) PIR detection with camera (Optional).

Specification

Protocol

HTTP, SNMP V1/V2c, TCP/IP & GPRS

Dimensions

19" (485mm) width x 1U (44.45mm) height

Input Voltage

230V AC via IEC socket

Redundant power supply

Battery Back up

One hour battery back up

RS232 input

Network configuration

Remote Output

Server rack Temperature, humidity, door status, smoke detection & previous database.

Remote Inputs

Door open access control

Automatic control

Four cooling fan tray control

Operating Temperature

0°C - 60° C

Humidity

Max 95% (non-condensing)

Warranty

one year Replacement

Control methods

Web interface.

View temperature, humidity, door open/close, smoke detector status and alert status.

Entries stored in the system data log. Configure user administrative settings, Permission.

Control the access for door open

Mobile interface

View temperature, humidity, door open/close, smoke detector status and alert status.

RS232 Control

Display and configure network settings (IP address, subnet Mask, default gateway, DNS, SMTP, etc.)

Serial baud rate: 19200bps.

Data format: 1 start bit, 8 data bits, no parity, 1 stop bit.

Front Panel LED indicators

"PWR" – indicates device.

Front Panel PS2 Keyboard Interface

Admin can change which servers are occupy this rack.

Up to 10 names can be stored

Front Panel Graphic LCD View status Temperature, humidity and server names (scrollable).

This can be portable.

Cooling fan Control If the temperature exceeds its temperature limit, it will automatically

Control the cooling fan temperature, humidity, door open/close, smoke detector status

Graphic LCD:

Display format : 128 x64 Dots Module: 93 x 70 x 10 mm
View area : 71x 39 mm
Dot size : 0.48 x0.48 mm
Background : Blue STN
Back light : Transmissive white LED

Temperature Sensors:

Calibrated directly in ° Celsius (Centigrade)
Linear + 10.0 mV/°C scale factor
0.5°C accuracy guarantee able (at +25°C)
Rated for full -55° to +150°C range
Operates from 4 to 30 volts
Less than 60 µA current drain
Low self-heating, 0.08°C in still air
Nonlinearity only $\pm 1/4^\circ\text{C}$ typical
Low impedance output, 0.1 W for 1 mA load
Temperature Sensor with 1 meter Cable

Humidity Sensor:

Measurement range : 0-100% RH
Absolute. RH accuracy : +/- 3% RH (20-80% RH)
Repeatability RH : +/- 0.1% RH
Fast response time : < 4 sec.
Low power consumption (typ. 30 µW)

Smoke detector:

Operating voltage : 12v to 27vdc
Maximum standby current : 80ua
Operating Temperature : -20 c to +60 c
Humidity (non –condensing) 5 to 95% relative
Cooling Fan Control Unit:
Four outputs with 230 vac.
Up to 5 amps fan control.
Fast switching
Usage: Dynamic power saving and reduced noise

Magnetic door contact switch:

Dimensions : 34 x 14 x 6. 5mm
Contact switch : NC-contact closed when magnet and reed switch
are together (NO/NO and NC available)
Operating distance : 20-25mm
Electrical specifications : 10W, 100V, 0. 5A

Siren:

Emits ear-piercing sound to deter intruders
Output Level: 108 dB
Screw terminal.
2-wire interface.
Maximum cable length: 100 ft

Infra red motion detector

Register movement in the area covered.

24 dual-element detection zones for long, mid and short range protection

Surface or corner mounting

Pulse count or single shot triggering.

Digital input sensor ports

Screw terminal

Maximum cable length: 10 ft

Biometric finger print sensor:

Technology CMOS active capacitive pixel-sensing

Image resolution 508 DPI

Grayscale image depth Full 8-bit

Acquisition speed 14 frames/second

Power supply 5V

Power consumption

Imaging 20mA

(authentication requires approx. 1 sec)

Sleep 70uA

Average power consumption 3.6 mW/h (assuming 10 touches/hour)

Package Size 20.4 x 27 x 3.5 mm

Active sensing area 12.8 x 18.0 mm

Pixel array size 256 x 360 pixels

ESD Protection IEC 61000-4-2 Level 4 ± 15kV

Operating Temperature -30°C to +85°C

Protective Coating > 2 million touches

Lead-free package ROHS compliant

Humidity 5% to 93% RH @ 30°C

Key station:

Remote key station solenoid lock designed for security system ON-OFF control applications.

Provides momentary contact with spring return.

Standard single gang mounting box.

Built-in tamper switch.

Built-in connection terminals.

For security system and door strike applications

Camera:

Low-powered solution for high resolution image capture

Built-in down-sampling, clamping and windowing circuits for

VGA/CIF/SIF/QCIF/160x128/80x64 image resolutions RS-232: 115.2K bps for transferring JPEG pictures or 160x128 preview @8bpp with 0.75~6 fps JPEG

CODEC for different resolutions

Built-in color conversion circuits for 4 gray/16 gray/256 gray/12-bit

RGB/16-bit RGB preview images

Emergency switch:

Electrical specification: 1W, 10V, 0.5A

Power supply: 8 - 14V DC / 1A

Sales and Enquiry

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