



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



#### Key Features



- Low Cost
- Works out of the box
- Attaches to a standard 10/100 Mbps Ethernet port
- Embedded web server requires no extra software
- Uses Ethernet port communications via standard IT components
- Sensors for temperature, RH and illumination - already built in
- ESBUS for optional external sensors (flood monitoring etc)
- Programmable email/text alerts means 24/7 monitoring\*

#### Common Applications

- Data centres
- Server/Comms Room
- Building Management
- Nagios Systems
- 3rd Party Software (SNMP)

The EM01b Websensor is an environmental monitoring device designed for remotely monitoring temperature, light and humidity in datacentres, server rooms - or any space that relies upon a steady and predictable environment and has access to the internet. The Websensor series are sensors with built-in signal conditioning and a web address. Users are able to access the sensor directly via PC and remotely monitor the data which can be viewed at any time through a web-browser and receive alarms via text or email.

The Websensor EM01b connects directly to your Ethernet network via a 10/100 Mbps switch or hub port. It provides monitoring for temperature, illumination (light level) and relative humidity and is ideal for monitoring environmental conditions in server rooms and wiring closets. It is capable of measuring DC voltages, which allows you to check battery supply voltages of UPS units

or renewable energy sources. The new thermistor interface allows you to interface external special use sensors, such as liquid temperature measurement and the new contact closure detection allows you to detect door open conditions (for security purposes) or configure equipment start-up and shut-down conditions.

The EM01b has an ESBUS enabling other external sensors and displays ES01 LCD display and ES11 flood sensor to connect to the web for remote monitoring. Each EM01b with its ESBUS is capable of handling up to six additional ESBUS enabled sensors using the EShub. The EM01b is supplied complete with cables and power supply. All manuals and software are downloadable from this website.

\* Works with Nagios for email/text alerts

### Specifications

Configuration	Web
Illumination Max (Lux)	1000
Illumination Min (Lux)	0
Interface	Ethernet
Parameters Measured	Temperature Relative Humidity Light
Power Voltage	12vDC
Relative Humidity Accuracy	±5%
Relative Humidity Max	95%
Relative Humidity Min	5%
SNMP	Yes
Temperature Accuracy °C	±0.2
Temperature Max °C	+80
Temperature Min °C	-40
Software	Nagios or Desktop Monitoring
Temperature, humidity, and Light Sensor integrated into unit or short 'Pigtail'	
Additional external temperature sensor in THM variant on 3m cable	

### Available Plugins

- Nagios
- Ipswich What Sign Gold
- PA Server Monitor
- GFI Network server monitor
- Paessler IP Check server monitor
- ZENOSS
- Open WMS
- MRTG

### Accessories

#### ES11 Flood Sensor *for use with EM01b websensor*

The ES11 flood sensor is a unit that connects to the EM01b series of websensors enabling the EM01b to be able to give an alarm message for a flood situation or ingress of moisture.

The ES11 is taped to the floor (or surface to be sensed for moisture) and is then connected to the EM01b via the EM01b ESBUS by cables supplied with the ES11.

The ES11 is then calibrated for the amount of moisture it is intended to sense. The ES11 will latch on sensing moisture until reset regardless of moisture drying out. All output conditions are logged on logging software if used. Great with Nagios. Check [www.siretta.co.uk](http://www.siretta.co.uk) for further details and pricing.

#### Magnetic contacts *for detecting when a door has been opened or closed*

Typical applications for this product are where access to a restricted area needs to be monitored, such as a server room or hazardous material store. Just connect directly to the dry contact input of the EM01b. Supplied with approximately 30cm of cable.

Resistance is less than 1Ω when the contacts are closed, and greater than 10MΩ when the contacts are open. LCD Display for EM01b.

#### ES01 LCD Display *for EM01b*

Real time display to show current information on Temperature, Relative Humidity and Light. The ES01 is a 2 line LCD display unit connected to the EM01b via the ESBUS and displays temperature humidity and light values that the EM01b is measuring. The ES01 is great for immediate viewing of the EM01b data and is supplied with a 3m cable to enable the ES01 to be positioned conveniently away from the EM01b. It is supplied with Velcro fixing. Check [www.siretta.co.uk](http://www.siretta.co.uk) for further details and pricing.

#### ES-Bus *Connect extra flood sensors and LCD display to the EM01b*

The ES-Bus adds enhanced flexibility to the EM01b, allowing the user to add up to 6 extra external sensors to the EM01b for flood monitoring and a real-time display.

#### Supported Sensors Include:

**ES01:** Real-time Display to show Temperature, Humidity, Light, Door State

**ES11:** Spot Flood Detector