



HE218A-TH



HE218A-EX



HE230A-TH/EX- USB(RJ45)



HE230-EPT



HE250A-TH/EX-USB(RJ45)



HE250A-EX



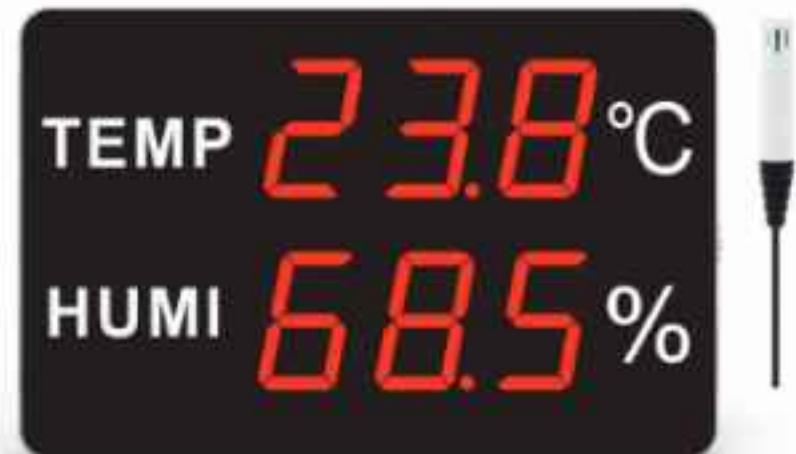
HE218B-TH/EX-USB(RJ45)



HE218B-TH

Model	HE218A-TH HE218A-EX	HE230A-TH HE230A-EX	HE230-EPT	HE218B-TH HE218B-EX	HE250A-TH HE250A-EX
					
LED size (inch)	1.8"	3.0"	3.0"	1.8"	5.0"
Visual range	20M	40M	40M	20M	75M
temperature resolution	TEMP±0.1°C HUMI±0.1°C	TEMP±0.1°C HUMI±0.1°C	TEMP±0.1°C	TEMP±0.1°C HUMI±0.1°C	TEMP±0.1°C HUMI±0.1°C
Temperature accuracy	(-20°C~70°C) ±0.5°C other±1°C	(-20°C~70°C) ±0.5°C other±1°C	(-20°C~70°C) ±0.5°C other±1°C	(-20°C~70°C) ±0.5°C other±1°C	(-20°C~70°C) ±0.5°C other±1°C
Humidity accuracy	±5%RH	±5%RH	/	±5%RH	±5%RH
Sensor type	-TH: internal sensor, -EX: external sensor, external sensor with 3m cable				
Temperature measurement range	-40~85°C	-40~85°C	-100~150°C	-40~85°C	-40~85°C
Humidity measurement range	0~100%RH	0~100%RH	/	0~100%RH	0~100%RH
Recording capacity	/	/	/	/	/
Net weight (KG)	2.08	2.08	2.08	4.8	4.8
Software	/	/	/	/	/
Standard accessories	User manual , sensor , warranty card, quality certificate				
Product dimension(CM)	38*24*4.5	38*24*4.5	38*24*4.5	60.1×38.3×5	60.1×38.3×5
Packaging dimension (CM)	46x31.5x8.5	46x31.5x8.5	46x31.5x8.5	67x47x10	67x47x10
Optional features	① External sound & light alarm ② GSM alarm ③TCP/IP communication ④ Data record  External sound & light alarm				

	HE218A	HE230A	HE250A
 HE218A-TH visual distance of 20m  HE230A-TH visual distance of 40m  HE250A-TH visual distance of 75m 			

Billboards With Networking Function			
Model with Ethernet port 	HE218B-TH-RJ45 	HE230A-TH-RJ45 	HE250A-TH-RJ45 
	HE218B-EX-RJ45 	HE230A-EX-RJ45 	HE250A-EX-RJ45 
Visual range	20M	40M	75M
Temperature accuracy	$\pm 0.5^{\circ}\text{C}$ ($-20^{\circ}\text{C}\sim 70^{\circ}\text{C}$) other $\pm 1^{\circ}\text{C}$		
Humidity accuracy	$\pm 5\%\text{RH}$		
Sensor type	External sensor with 1.5/3 meters cable		
Temperature measurement range	$-40\sim 85^{\circ}\text{C}$		
Humidity measurement range	0~100%RH		
Net weight (KG)	4.8	2.08	4.8
Software	LogPro		
Standard accessories	User manual , sensor , warranty card, quality certificate.		
Optional features	① External sound & light alarm ② GSM alarm ③ TCP/IP communication ④ Data record		
Product dimension(CM)	60.1*38.3*5	38*24*4.5	60.1*38.3*5
Packaging dimension (CM)	67*47*10	46*31.5*8.5	67*47*10
Features	1、 Appearance: wall mounted , with external sensor. 2、 Resolution:temperature 0.1 $^{\circ}\text{C}$, humidity 0.1%RH. 3、 Key:4 keys, could set deviation, upper and lower limits for alarm, turn on/off the external sound &light alarm.		

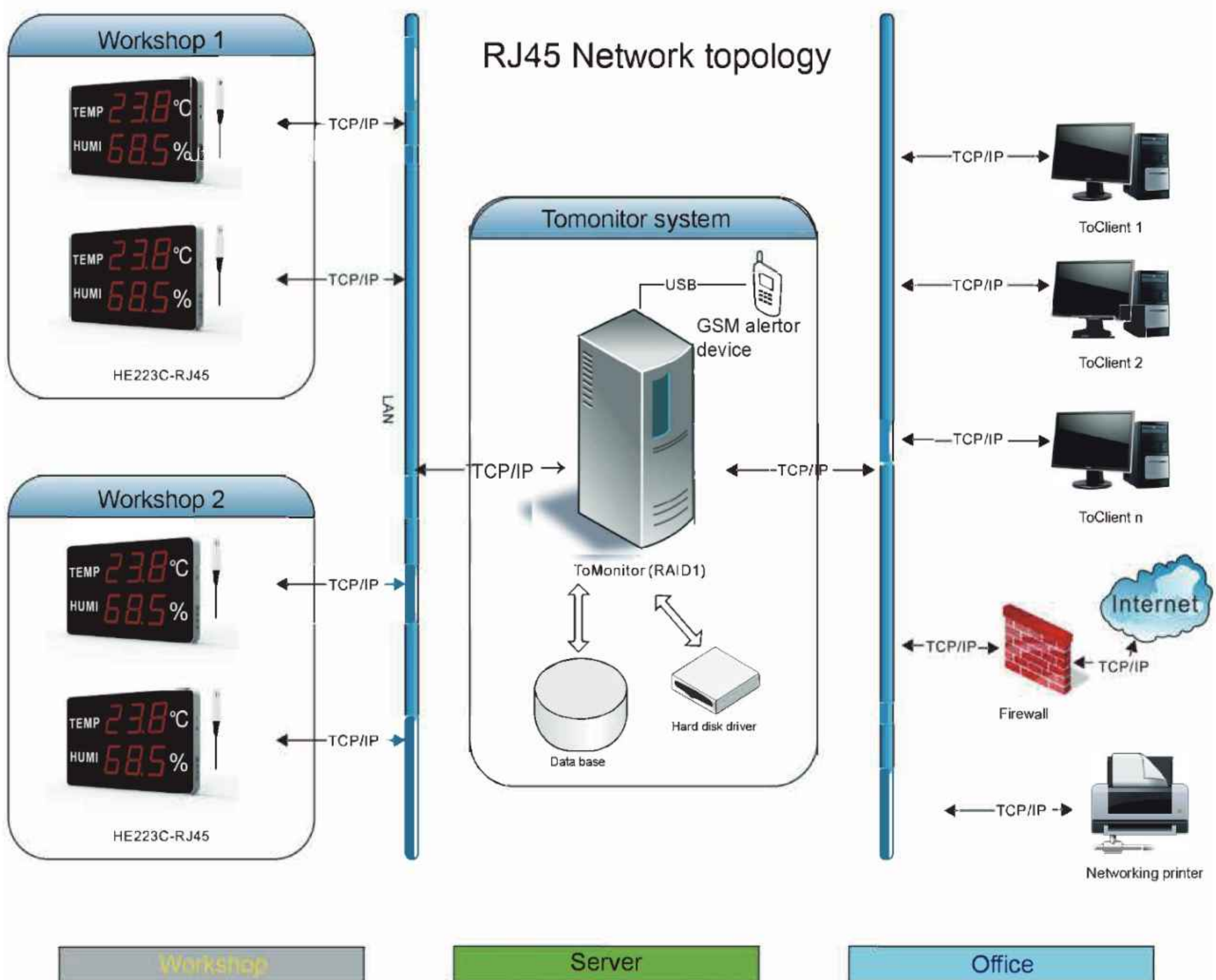
Environmental monitoring system

This environmental monitoring system consist of 3 parts: the device layer , control layer and user layer

User layer : including any authorized computers in this system. These devices is allowed to access thereal-time running information and historic data of this system after installed the ToClient software. Working principle: all data is stored in the database of control layer(control server). Users can view the real-time/stored data via LAN/Inter-net. When the monitoring data value exceeds settings set by user, this software will also play alarm sound or send email/SMS to alarm users

Control layer: the ToMonitor runs on a server, it writes all real-time data collecting form end devices to SQL database, it triggers the alarm function when data value exceeds settings

Device layer: all the high precision loggers records temperature, humidity and other data automatically, then sends the data to ToMonitor for processing. With battery, our loggers continually records data when the server is shutdown or there's line faults, so the data will not be lost



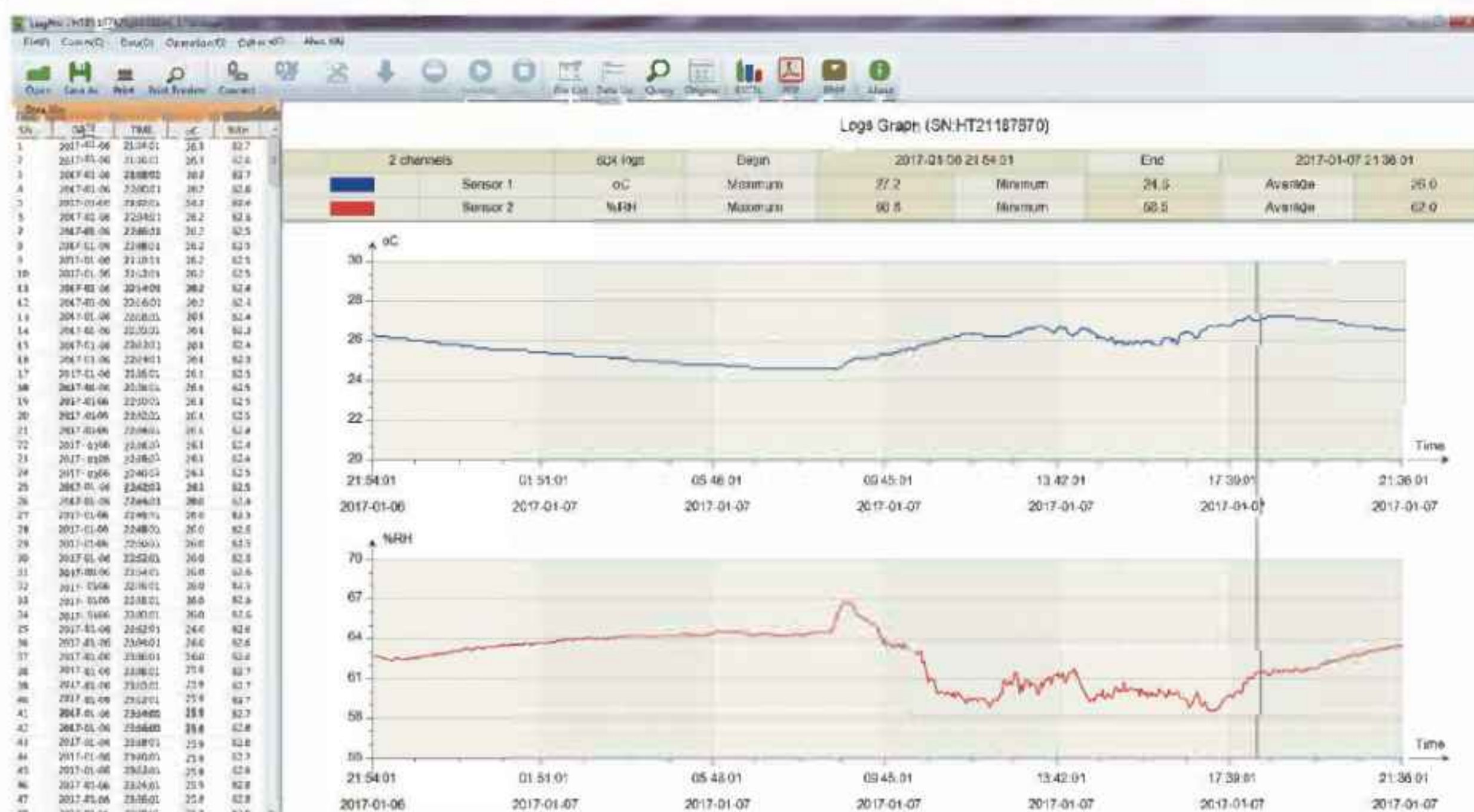
The device layer includes temperature & humidity data logger and wireless repeater, the function of this layer is to collect, record and upload temperature & humidity data . The data logger collects and records temperature & humidity data from surrounding environment and upload it to a server via wireless repeater.

oMonitor is server software, it stores data uploaded from data loggers and displays it on the software. Users can set temperature and humidity value range for each devices, when the value exceeds limits, the software will alarm user immediately.

ToClient is the client, user can access server via this software to view real-time/recorded data of each tempera-ture & humidity data logger.

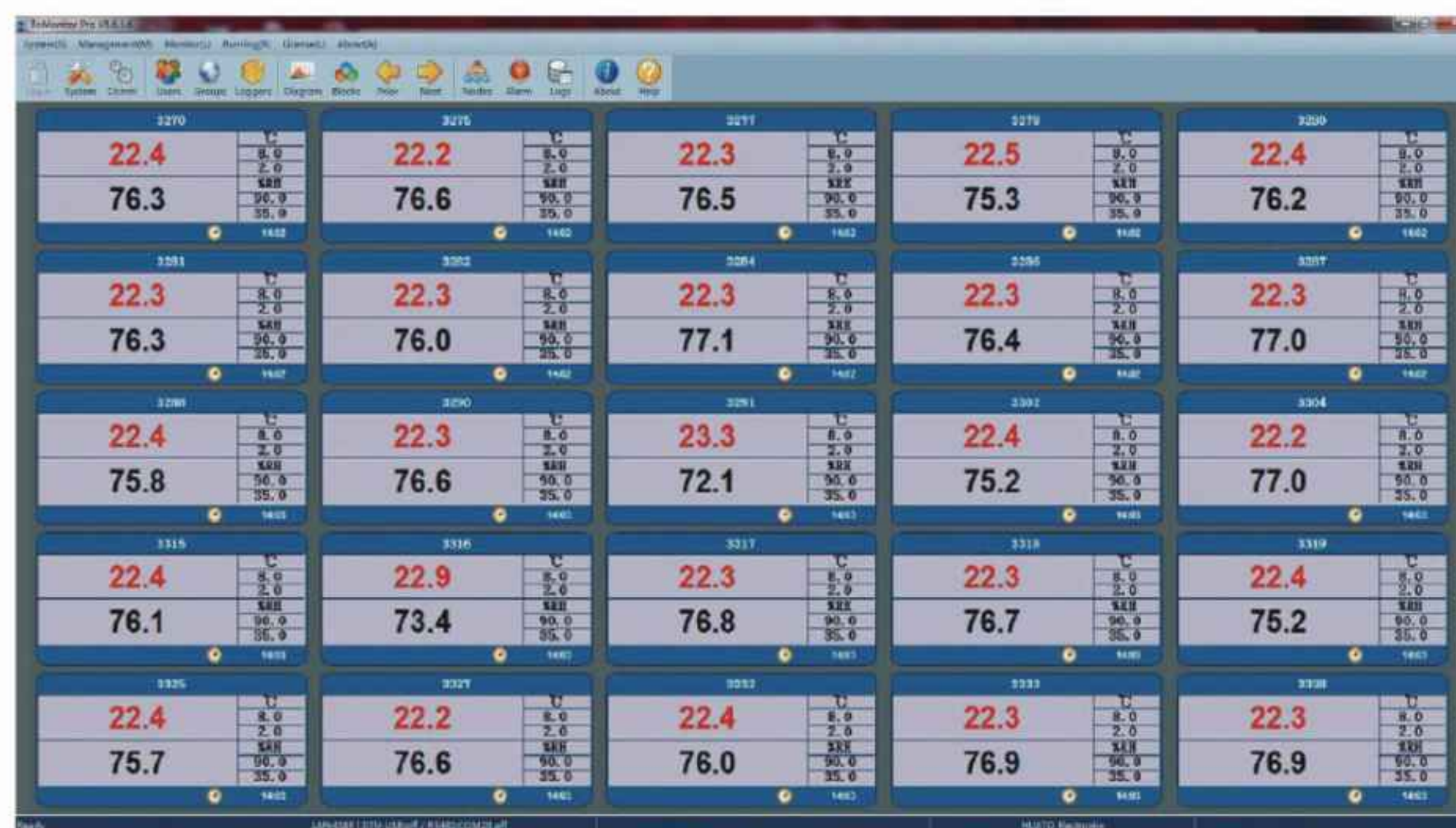
Stand-alone Logpro software

1. Users can change settings by connect a device to a computer .
2. Download the data stored in a device and save it in a database .
3. View the data recorded during a specific time .
4. Save data in PDF, Excel or BMP format.
5. View the data file list and the curve graph of temperature and humidity via this software.



ToMonitor software for networking

1. Alarm users when data value exceeds limits, device went offline or there's power failure. Alarm the administrator when the device stopped uploading data for a certain time.
2. Each monitoring point supports up to four kinds of sensors, sensor's resolution can be set by users
3. It is a highly extendable system, supports RJ45, GPRS, RS485, USB and wireless devices hybrid networking.
4. ToMonitor take full advantage of multi-core CPU, it supports multi-thread processing and successfully increases system throughput rate. When sending a message or alarm, it will not affect system performance.



ToClient software

1. The system adopts the client/server architecture to support internal LAN access, users does not need to go to the server room to download data.
2. Instruments/Relay subnet networking, unmanned operation, easy to add new devices.
3. Encrypted data transmission effectively prevent data leakage.
4. Providing real-time data list display and curvilinear graphical display function, users can view real-time monitoring data and running information of monitoring points.

