



Sky Control^{s.r.o.}
Monitoring & Control Systems

IP telemetry & Remote monitoring **IP** switchable metered PDU

- IP Environmental control
- Simple remote monitoring
- Access via friendly interface



www.skycontrol.com



Sky Control s.r.o. is a modern company based in Slovakia (Bratislava).

Sky Control provides IP telemetry control, IP monitoring and IP power management solutions for telecommunication companies, enterprises and small business. Our IP Monitoring Systems, IP PDUs, different sensors are designed for data centres, server rooms, web hosting facilities, telecommunication racks and etc.

In the nearest future, the company will develop a new range of wireless sensors and IP devices for home use. Our aim is to provide user friendly and reasonably priced products to all our clients. Based in Slovakia, we have representatives in Turkey and Belarus, Lithuania, Poland and Russia and we are looking for more distributors across Europe and other regions.

Sky Control s.r.o., ul.Svornosti 41, 82 106 Bratislava, Slovakia
info@skycontrol.com, www.skycontrol.com

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IP Monitoring Units

5500.824 / Monitoring Master Unit

(GSM modem is ordered separately)



CHARACTERISTICS:

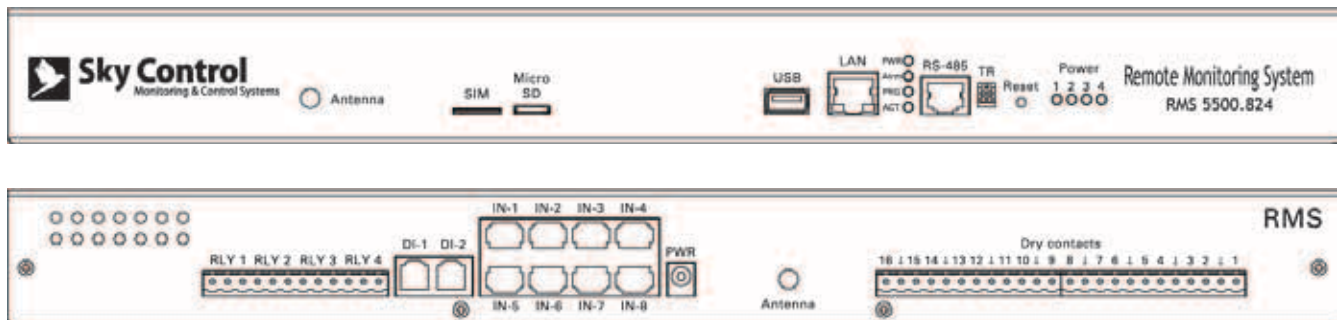
- Device is used for IP monitoring and remote management or as a video server in premises and site units, for example, in server rooms or telecommunication stations, detached buildings.
- It is possible to connect up to 8 analog, 20 digital sensors, two 1-Wire Proximity Reader/I-touch button reader, 16 dry contacts and up to 4 relay devices.
- Connection up to 30 additional extension units, such as RS or BU.

Supply includes:

- Power supply 220V*12V
- 3 plugs with terminal strip TBW-5-6P
- 4 self-adhesive rubber legs
- Manual CD
- Technical data sheet
- Warranty

Concept:

- See page 21



Installation	19" rack
IP monitoring	Web, SNMP, manual: ICQ, SMS (GSM modem is ordered separately art. 5500.900)
Relay devices control	Separate 3-level control of sensors and relay using login
LAN	Ethernet 10/100Mbit
Network protocols	Built-in HTTP server, SNMP agent, SMTP agent, manageable logic. Uses FTP link for updating current software version.
OS	Linux 2.6.23
RAM	32Mb
ROM	8Mb FLASH
Software	Built-in software for events processing.
Alert type	eSMTP or SNMP traps, ICQ, SMS (GSM modem is ordered separately art. 5500.900)
RS485 port	1xRS485 port of cascading for connection up to 30 extension units
USB port	Webcam. Type: most motion-jpeg cameras, image resolution: 320×240, video is sent to email up to 320 Kb in one file (10-20secs).
Analog ports	8×6P6C for connection of various sensors. Fuse protection on each line.
Digital BUS	2×6P4C for connection of up to 20 digital sensors of humidity, voltage, motion or one access reader on each BUS. Fuse protection on each line.
Contact control	16 dry contacts to control doors and window contacts, state of voltage/power switches
Relay outputs	4 on/off x 220V*5A.
Net weight	2 kg
Dimensions (WxHxD)	440×44×110mm

IP Monitoring Units

5510.824 / Monitoring Master Unit with outlets

(GSM modem is ordered separately)



CHARACTERISTICS:

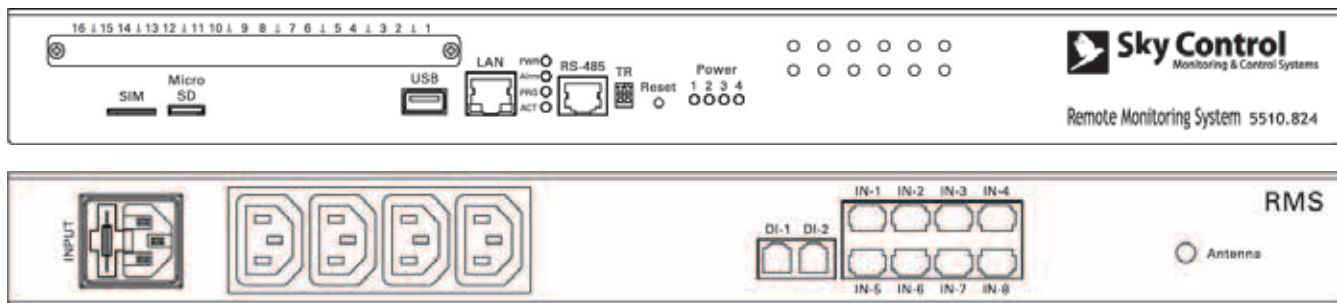
- Device is used for IP monitoring and remote management or as a video server in premises and site units, for example in server rooms or telecommunication stations, detached buildings.
- It is possible to connect up to 8 analog, 20 digital sensors, 16 dry contacts.
- Connection up to 30 additional extension units, such as RS or BU.

Supply includes:

- Power supply 230V
- 4 self-adhesive rubber legs
- Manual CD
- Technical data sheet
- Warranty

Concept:

- See page 21



Installation	19" rack
IP monitoring	Web, SNMP, manual: ICQ, SMS (GSM modem is ordered separately art. 5500.900)
Outlets control	Separate 3-level control of sensors and outlets via login
LAN	Ethernet 10/100Mbit
Network protocols	Built-in HTTP server, SNMP agent, SMTP agent, manageable logic. Uses FTP link for updating current software version.
OS	Linux 2.6.23
RAM	32Mb
ROM	8Mb FLASH
Software	Built-in software for events processing
Alert type	eSMTP or SNMP traps, ICQ, SMS (GSM modem is ordered separately art. 5500.900)
RS485 port	1xRS485 port of cascading for connection up to 30 extension units
USB port	Webcam. Type: most motion-jpeg cameras, image resolution: 320×240, video is sent to email up to 320 Kb in one file (10-20secs).
Analog ports	8×6P6C for connection of various sensors. Fuse protection on each line.
Digital BUS	2×6P4C for connection of up to 20 digital sensors of humidity, voltage, motion or one access reader on each BUS. Fuse protection on each line.
Dry contacts	Possibility to add 16 dry contacts module to control doors and window contacts, state of voltage/power switches, etc.
Power outlets	4×220V*5A. The first and the second sockets are always switched on, the third and the fourth are always switched off.
Input	1x IEC C14 Fuse protection.
Output	4x IEC C13
Net weight	1.8 kg
Dimensions (WxHxD)	440×44×116mm

IP Switchable Metered PDUs

5510.108 / IP Switchable PDU



CHARACTERISTICS:

- The device is used for IP load switching and can be used as a video server or a monitoring unit.
- Built-in monitored current sensors allow to monitor current consumption in each outlet and to control load of electric equipment.
- Switching is possible using built-in logic or compulsory on command.

Supply includes:

- 1 power cable 230V
- 1 C13/C14 230V cable
- 4 self-adhesive rubber legs
- Manual CD
- Technical data sheet
- Warranty

Concept:

- See page 22



Installation	19"rack
Power control	Web, SNMP, manual: ICQ
Outlets control	Separate 3-level control using login.
LAN	Ethernet 10/100Mbit
Network protocols	Built-in HTTP server, SNMP agent, manageable logic. Uses FTP link for updating current software version.
OS	Linux 2.6.23
RAM	32Mb
ROM	8Mb Flash
Software	Built-in software for events processing.
Alert type	eSMTP or SNMP traps, ICQ
RS485 port	Built-in
USB port	Webcam. Type: most motion-jpeg cameras, image resolution: 320×240, video is sent to email up to 320 Kb in one file (10-20secs).
Analog sensors	2×6P6C for connection of analog sensors. Fuse protection.
Current transformers	8 metered AC transformers I=0-10A, measure current separately in each socket
Voltage meters	2 built-in voltage meters measuring input voltage
Power outlets	8×C13×250V×5A.
Input	2x IEC C14 Fuse protection.
Output	8x IEC C13
Net weight	2.5 kg
Dimensions(WxHxD)	440×44×116mm

IP Switchable Metered PDUs

5510.008 / IP Server switchable PDU



CHARACTERISTICS:

- The device is used for IP load switching and can be used as a video server or a monitoring unit.
- Possibility to switch up to 8 stations with soft or hard shut down.
- Built-in metered current sensors allow to monitor current consumption in each outlet and to control load of electric equipment.
- Switching is possible using built-in logic or compulsory on command.

Supply includes:

- 1 power cable 230V
- 1 C13/ C14 230V cable
- 1 cable DB-9 RJ45
- 4 self-adhesive rubber legs
- Manual CD
- Technical data sheet
- Warranty

Concept:

- See page 22



Installation	19" rack
Power control	Web, SNMP, manual: ICQ
Outlets control	Separate 3-level control using login.
Servers control	8 x RS232 ports for soft&hard shutdown&restart of servers
LAN	Ethernet 10/100Mbit
Network protocols	Built-in HTTP server, SNMP agent, SMTP agent, manageable logic. Uses FTP link for updating current software version.
OS	Linux 2.6.23
RAM	32Mb
ROM	8Mb FLASH
Software	Built-in software for events processing
Alert type	eSMTP or SNMP traps, ICQ
RS485 port	Built-in
USB port	Webcam. Type: most motion-jpeg cameras, image resolution: 320×240, video is sent to email up to 320 Kb in one file (10-20secs).
Analog sensors	2×6P6C for connection of analog sensors. Fuse protection.
Current transformers	8 metered AC transformers I=0-10A, measure current separately in each socket
Voltage meters	2 built-in voltage meters measuring input voltage
Power outlets	8×C13 × 250V*5A.
Input	2x IEC C14 Fuse protection
Output	8x IEC C13
Net weight	2.5kg
Dimensions (WxHxD)	440×44×116mm

Extension Units

5505.814 / Relay Sensor Unit with outlets

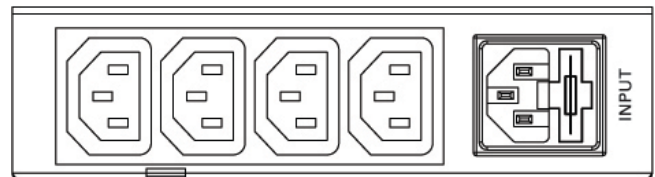
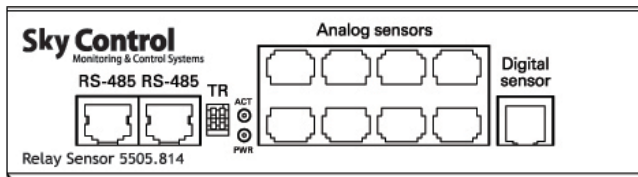


CHARACTERISTICS:

- Device is used in remote premises (up to 1km from master units), for example in additional server rooms, premises for emergency power supply or in detached buildings.
- Possible connection up to 8 analog sensors, 10 digital sensors, one 1-Wire Proximity reader or I-Touch button reader and up to 4 electrical devices.

Supply includes:

- UTP patch cable 1 m
- 4 self-adhesive legs
- technical data sheet
- warranty



Installation	On the bottom there are mounting holes for installation using self-tapping screws 3.5 or M3 screws; 2 mounting holes for installation on DIN rail.
Power outlets	4*C13×220V*5A. Separate 3-level control of outlets via login
RS485 port	2xRS485 cascading ports for connection to any master unit and for connection of up to 30 extension units
Analog ports	8×6P6C for connection of analog sensors. Fuse protection on each line.
Digital BUS	1×6P4C for connection up to 10 digital sensors of temperature, humidity, voltage, motion, fans and etc. or one access reader on each BUS. Fuse protection.
Input	1x IEC C14 Fuse protection.
Output	4x IEC C13
Net weight	0.6 kg
Dimensions (WxHxD)	145×44×100mm

CE EMC

Extension Units

5505.816 / Relay Sensor Unit

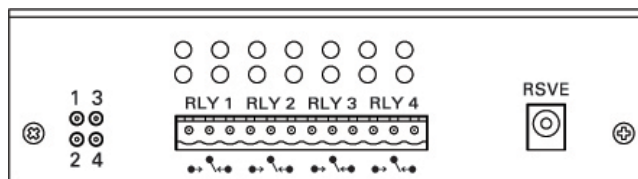
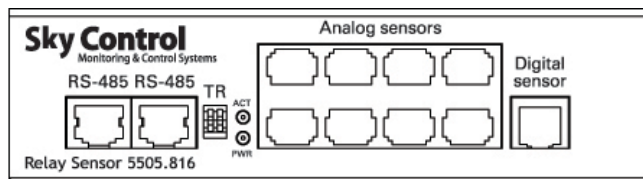


CHARACTERISTICS:

- Device is used in remote premises (up to 1km from master units), for example in additional server rooms, premises for emergency power supply or in detached buildings.
- Possible connection up to 8 analog sensors, 10 digital sensors, one 1-Wire Proximity reader or I-Touch button reader and 4 relay devices.

Supply includes:

- UTP patch cable 1 m
- 2 plugs with terminal strip TBW-5-6P
- 4 self-adhesive legs
- technical data sheet
- warranty

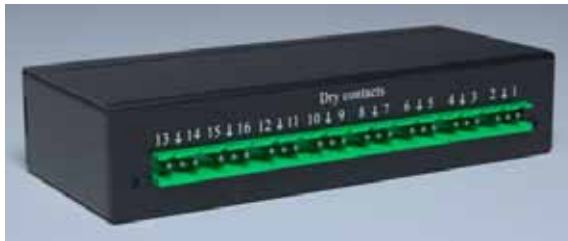


Installation	On the bottom there are mounting holes for installation using self-tapping screws 3.5 or M3 screws; 2 mounting holes for installation on DIN rail.
Digital BUS	1×6P4C for connection up to 10 digital sensors of temperature, humidity, voltage, motion, fans and etc. or one access reader on each BUS. Fuse protection.
Analog ports	8×6P6C for connection of analog sensors. Fuse protection on each line.
Relay outlets	4 relay outlets on/off x 220V*5A.
RS485 port	2xRS485 cascading ports for connection to any master unit and for connection of up to 30 extension units
Net weight	0.6 kg
Dimensions (WxHxD)	145×44×90mm

CE EMC

Extension Units

5505.016 / Contacts Unit

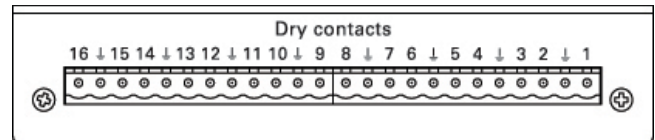
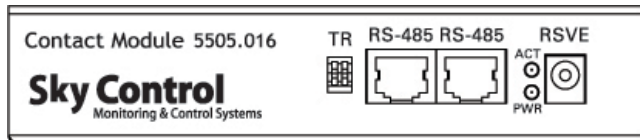


CHARACTERISTICS:

- Device is used together with address contacts, for example with door or window contacts, circuit breakers etc.
- Allows addressed correlation of button responses and permits adequate measures to be taken established by the system logic.

Supply includes:

- UTP patch cable 1m
- 4 plugs with terminal strip TBW-5-6P
- 4 self-adhesive rubber legs
- technical data sheet
- warranty



Installation	On the bottom there are mounting holes for installation using self-tapping screws 3.5 or M3 screws; 2 mounting holes for installation on DIN rail.
RS485 port	2xRS485 cascading ports for connection to any of the master units or to other devices with RS485 port.
Dry contacts	16
Net weight	0.4 kg
Dimensions (WxHxD)	145×30×62mm



5500.900 / Built-in GSM modem



CHARACTERISTICS:

- Can be embedded in all Monitoring master units. Needed when LAN is absent or for reservation of a connection channel of master unit with Internet; for sending SMS and voice messages.

SUPPLY INCLUDES

- GSM modem, GSM quadband antenna with plug, 10-pin IDC2 cable

Analog Sensors

5500.500 / Temperature sensor



CHARACTERISTICS:

- Sensor is needed for measurement of temperature indoors.

SUPPLY INCLUDES:

- Sensor, 4-wired telephone cable RJ11 (2m), screw 4.8×16mm, double sided sticker.

Installation	On the bottom there is a ledge with Ø4.5mm and height 1mm and a mounting hole in 50mm from it for fastening the sensor using 4.8x16mm screw.
Connection	Temperature sensor contains RJ-11 jack and is connected to an analog input of any system unit. Determination of type of sensor and connection occur automatically.
Operating temperature	-40... +100°C
Net weight	50g
Dimensions (LHW)	60×18×18mm

5500.501 / Outdoor temperature sensor



CHARACTERISTICS:

- Sensor is needed for measurement of temperature outside of premises, can be applied indoors.

SUPPLY INCLUDES

- 4-wired telephone cable RJ11 (15m), sensor.

Installation	An all-weather 2-pair UTP cable of 25m emerges from the cylinder. After installation of cylinder outside of the building, the cable must be placed to reach the system unit.
Connection	After installation RJ-11 connector is connected to an analog input of any system unit. Determination of type of sensor and connection occur automatically.
Operating temperature	-40... +100°C
Net weight	450g
Dimensions (LHW)	Device represents cylinder of Ø 6×20 mm

5500.511 / Humidity sensor



CHARACTERISTICS:

- Sensor is needed for measurement of relative humidity 20-95% indoors with relative accuracy 5%.

SUPPLY INCLUDES

- Sensor, 4-wired telephone cable RJ11 (2m), screw 4.8×16mm, double sided sticker.

Installation	On the bottom there is a ledge with Ø 4.5 mm and height 1 mm; and a mounting hole in 50 mm from it for fastening sensor using 4.8x16mm screw.
Connection	Humidity sensor contains RJ-11 jack and is connected to an analog input of any system unit. Determination of type of sensor and connection occur automatically.
Humidity	20-95% RH
Accuracy	5% relative accuracy
Net weight	50g
Dimensions (LHW)	60×18×18mm

Analog Sensors

5500.520 / AC voltage monitor



CHARACTERISTICS:

- Sensor is needed for measurement of standard power supply 220-230V or any other capacity in the power supply system, for example in an outlet, on an extension cord or in a rack-mountable socket strip.

SUPPLY INCLUDES:

- Sensor and USB RJ11 patch cable (1.8 m).

Connection	Plug 220V is put into the outlet needed for measurement of 220V. Cable's USB connector must be connected to the USB output, connector RJ-11 must be connected to an analog input of any system unit. Determination of sensor's type and connection occur automatically.
Voltage measured	0–250V
Net weight	100g
Dimensions (LHW)	80×40×22mm

5500.525 / DC voltage monitor



CHARACTERISTICS:

- Sensor is needed for measurement of constant voltage.

SUPPLY INCLUDES:

- warranty and cable RJ11 2m, 2-pin terminal strip type TBW-5-2p, double sided sticker.

Connection	Sensor is connected to analog input of any system module. Determination and connection of sensor occur automatically. 2-pin terminal strip with measured voltage is connected to the jack on the sensor.
Voltage measured	0–100V
Net weight	50g
Dimensions (LHW)	60×18×18mm

5500.530 / Access sensor



CHARACTERISTICS:

- At installation on doors, windows, etc. sensor controls status of door, window: opened, closed.

SUPPLY INCLUDES:

- Contact sensor, magnet, 4-wired telephone patch cable RJ-11 (2m), two screws 4.8×16mm, 2 screws M5 and 2 nuts, bracket, double sided sticker.

Installation	On the bottom there is a ledge with Ø 4.5 mm and height 1 mm; and a mounting hole in 50 mm from it for fastening sensor by 4.8x16mm screw. The system of monitoring allows to connect several access sensors into a linear circuit. For this purpose each access sensor has two jacks RJ-11: input and output.
Connection	Using patch-cable RJ-11 sensor is connected to an analog input of any system unit. Determination of sensor's type and connection occur automatically. One of the devices in the kit, for example, magnet, is mounted on a door; the second device is mounted on a jamb of a door. At opening a door contact is disconnected, and system of monitoring receives notification on opening. The first sensor is connected using patch-cable RJ-11 to an analog input of the system unit, the consequent sensor is connected via patch-cable RJ-11 to an output of the first sensor and so on.
Net weight	80g
Dimensions	Two devices with dimensions 60×18×18mm (LxHxW)

Analog Sensors

5500.540 / Vibration sensor



CHARACTERISTICS:

- Sensor is needed for installation on walls, windows, etc., monitors vibration of a surface.
- Adjustable range of vibration.

SUPPLY INCLUDES:

- Sensor, 4-wired telephone patch cable RJ11 (2 m), screw 4.8×16mm, double sided sticker.

Installation	On the bottom there is a ledge with Ø 4.5 mm and height 1 mm; and a mounting hole in 50 mm from it for fastening sensor by 4.8x16mm screw.
Connection	RJ-11 jack is connected to an analog input of any system unit using RJ-11 patch cable. Determination of sensor's type and connection occur automatically. At impact or attempts of jolting or drilling of the surface contacts of the sensor respond and the system receives message on breaking.
Net weight	50g
Operating temp.	-37... +100°C
Dimensions	60×18×18mm (LxHxW)

5500.550 / Air flow sensor



CHARACTERISTICS:

- Sensor is needed for installation in racks for fan airflow control
- Adjustable range of airflow speed

SUPPLY INCLUDES:

- Sensor, 4-wired telephone cable RJ11 (2 m), screw 4.8x16mm, double sided sticker, 4 airflow cables with sensor head, cable stickers

Installation	On the bottom there is a ledge with Ø 4.5 mm and height 1 mm; and a mounting hole in 50 mm from it for fastening sensor by 4.8x16mm screw at any place near the fan.
Connection	RJ-11 jack is connected to an analog input of any system unit using RJ-11 patch cable. Determination of sensor's type and connection occur automatically. Airflow sensor cables are connected to the holes on the side of sensor, determination occurs automatically. Sensor heads are mounted near the fan airflow.
Net weight	50g
Operating temp.	-37... +100°C
Dimensions	60×18×18mm (LxHxW)

5500.560 / Smoke sensor



CHARACTERISTICS:

- At installation indoors, in a rack and etc., the sensor monitors occurrence of smoke.
- Automatic restoration of power after the actuation.

SUPPLY INCLUDES:

- Sensor, 4-wired cable RJ11 (2m), 2 screws and 2 nuts M4, 2 screws 4.8×20mm, bracket, double sided sticker.

Installation	On the bottom there are mounting holes for fastening smoke sensor to the surface by 4.8x20mm screws or/and bracket and M4 screws.
Connection	Sensor's jack RJ-11 is connected to an analog input of any system unit using patch-cable RJ-11. Determination of sensor's type and connection occur automatically. The system of monitoring allows to connect several smoke sensors into a linear circuit.
Net weight	220g
Dimensions	Ø100×45 (LxHxW)

Analog Sensors

5500.570 / Motion sensor



CHARACTERISTICS:

- Sensor is needed for control of movement over an infrared range and measurement of temperature indoors.

SUPPLY INCLUDES:

- Sensor, built in 4-wired telephone patch cable RJ11 (2m), screws, plastic bracket.

Installation	On the bottom there is a mounting slot for fastening sensor by plastic bracket.
Connection	Temperature sensor contains RJ-11 jack and is connected to an analog input of any system unit. Determination of sensor's type and connection occur automatically.
Net weight	125g
Dimensions (LHW)	105×57×40mm

5500.590 / Leakage sensor



CHARACTERISTICS:

- When water is in contact with the metal cores, the sensor indicates the emergence of moisture.
- If sensor is constantly responding to high water levels, replace the leakage sensor with a level sensor (Art.5500490).

SUPPLY INCLUDES:

- Sensor, 4-wired telephone cable RJ-11 (2m), bracket, 2 screws and 2 nuts M5, screw 4.8x16mm, double sided sticker.

Connection	Connector RJ11 is connected to an analog input of any system unit. Determination of sensor's type and connection occur automatically.
Installation	On the bottom there is a ledge with Ø 4.5 mm and height 1 mm; and a mounting hole in 50 mm from it for fastening sensor by screw 4.8x16mm. There are two metal cores on the side of device.
Net weight	60g
Dimensions (LHW)	60×18×18mm

5500.591 / Water detection cable sensor



CHARACTERISTICS:

- When water is in contact with detection cable sensor indicates the emergence of moisture.
- If sensor is constantly responding to high water levels, replace the sensor with a level sensor (Art.5500490).
- Length: 1-100m can be ordered
- Response time: 7-12 sec

SUPPLY INCLUDES:

- sensor, cable, terminal strip type TBW-5-2p, screw 4.8x16mm, double sided sticker

Connection	Connector RJ11 is connected to an analog input of any system unit. Determination of sensor's type and connection occur automatically.
Installation	On the bottom there is a ledge with Ø 4.5 mm and height 1 mm; and a mounting hole in 50 mm from it for fastening sensor by screw 4.8x16mm. 2-pin terminal strip type TBW-5-2p with mounted water detection cable is plugged into sensor's connector.
Net weight	25g
Dimensions (LHW)	60×18×18mm

Digital Sensors

5500.731 / Humidity and temperature sensor



CHARACTERISTICS:

- Sensor is needed for measurement of humidity and temperature indoors.
- Sensor contains embedded temperature sensor.

SUPPLY INCLUDES:

- Sensor, 4-wired telephone patch cable RJ-11 (2m), screw 4.8×16mm, double sided sticker.

Installation	On the bottom there is a ledge with Ø 4.5 mm and height 1 mm; and a mounting hole in 50 mm from it for fastening sensor using screw 4.8x16mm.
Connection	Sensor's jack RJ-11 is connected to a digital input of any system unit or to an output of another digital sensor using RJ-11 patch cable.
Measured temperature range	-20...+60°C
Measured humidity range	10-90% RH.
Net weight	50g
Dimensions (LHW)	60×18×18mm

5500.760 / Smoke and temperature sensor



CHARACTERISTICS:

- At installation indoors, inside the rack etc., sensor monitors occurrence of smoke and temperature inside the building.
- Automatic restoration of power after the actuation.

SUPPLY INCLUDES:

- Sensor, 4-wired telephone patch cable RJ11 (2m), bracket, 2 screws and 2 nuts M4, 2 screws 4.8x20mm, double sided sticker.

Installation	On the bottom there are mounting holes for fastening smoke sensor to the surface using screws 4.8x20mm or/and bracket and M4 screws.
Connection	Sensor's jack RJ-11 is connected to a digital input of any system unit or to an output of another digital sensor using RJ-11 patch cable.
Measured temperature range	-20...+60°C
Net weight	220g
Dimensions (LHW)	Ø100×45mm

5500.770 / Motion and temperature sensor



CHARACTERISTICS:

- Sensor is necessary for control of movement over an infrared range and measurement of temperature indoors.

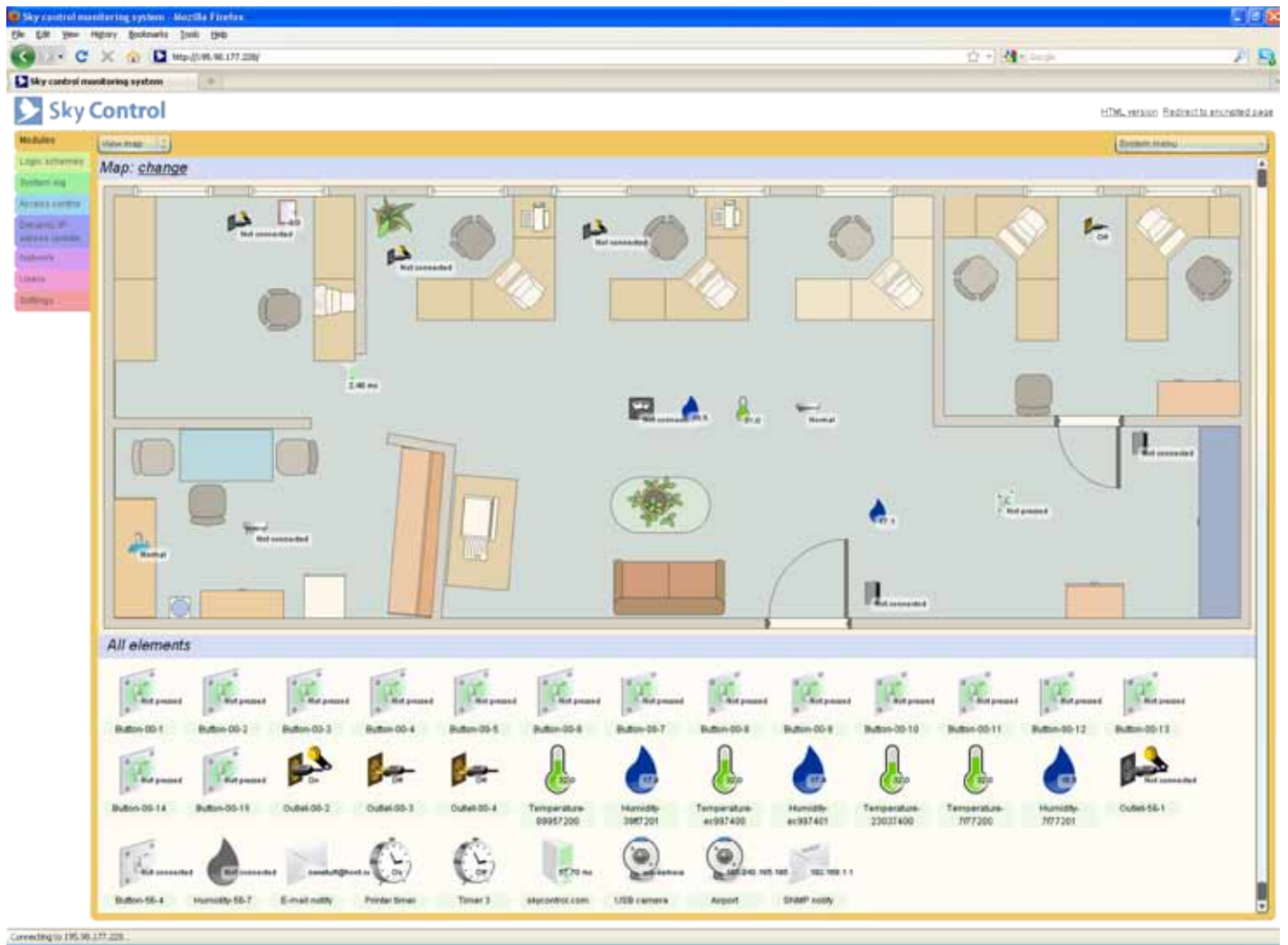
SUPPLY INCLUDES:

- Sensor, built-in 4-wired telephone patch cable RJ11 (2m), screws, plastic bracket.

Installation	On the bottom there is a mounting slot for fastening sensor by plastic bracket.
Connection	Temperature sensor contains RJ-11 jack and is connected to a digital input of any system unit.
Measured temperature range	-20...+60°C
Net weight	125g
Dimensions (LHW)	105×57×40mm

Interface

5510.824 with extension units



System menu:

Add mailer	Add e-mail notifications, SNMP-traps, SMS-messaging (GSM modem ordered separately).
Add timer	Add timer (allows to perform certain tasks at a certain intervals with a period of 1 day or 1 week, or once).
Add server to ping	Add automatic ping service.
AIM/ICQ notifications	Add AIM/ICQ notifications.
Add IP-camera	Add IP cameras (wide range of IP-cameras which have the possibility to transfer images in JPEG format).
Save	Save system settings in Flash memory.
Download system settings	Set, replicate or restore the system settings.
Synchronize system time	Synchronize system time with computer time.
Reset power source now	Reset alarm status of sensors.
Update from hard drive	Update system from a folder on your computer.
Reboot system	Restart the system.
About this system	View version of the system, remote time and local time.

Interface

Panel tabs of the interface



Panel tabs:

Modules	Includes “Group view”, “Module view” and “Map view” for sensors and elements.
Logic schemes	Allows creation of logic for the system: to activate specific actions and notifications if a specific combination of logic conditions of system elements occurs.
System log	All changes in sensor states, notifications on carrying out actions of logic circuitry, other important events are displayed in the system log of monitoring system.
Access control	Allows to control access of certain users to certain premises.
Dynamic IP-address update	Needed when monitoring system is used in Ethernet network, which is not directly connected to Internet.
Network	General network settings: FTP upgrade, SNMP and etc.
Users	Three level login into the system: Administrator, User, Guest.
Settings	Interface settings.

Sensor configuration

- Rename sensor.
- Save sensor data in XML or plain text format.
- Set “Low”, “Warning” and “Alarm” level of the sensor.
- View sensor data for 1 minute, 1 hour, 1 day, 1 month.
- Show data for more than two sensors using “Multiplot”.



Interface

Adding E-mail, SNMP, AIM/ICQ notifications, Ping, Timer and Logic

Add mailer (E-mail notification)

Notification type:

Name: E-mail notify

SMTP server: mail.dns.com

SMTP port: 25

Logic (not required): info@your-company.com

Password (not required):

Mail to: info@your-company.com

Mail from: info@your-company.com

Message format: Use the substitution to send your own message: %1: logic definition, %2: sensor state, %3: date and time, %4: logic name, %5: new line

Logic: %4 to %5Definition: %5 for Current sensor state: %2 to %5system t

Buttons:

Add mailer (AIM / ICQ notification)

Notification type:

Subscription list: administrator

recipients should be separated with comma

AIM/ICQ account login (account should be created): 420857710

Account password: *****

Buttons:

Add timer

Timer period:

Name: Printer timer

Start time: 9:00

End: 18:00

Please make sure you write time period in system time zone

Select days when timer is available: Mon Tue Wed Thu Fri Sat Sun

Buttons:

Add mailer (SNMP notification)

Notification type:

Name: SNMP notify

SMTP server: 192.168.1.1

SMTP port: 162

Cessality: public

SNMP version:

Buttons:

Add ping

Name: skycontrol.com

Server to ping: www.skycontrol.com

Ping period (seconds):

Estimated round trip time:

Status:

State: Server is responding

IP address: 64.16.33.45

Average echo time (in milliseconds): 57.74

Packets sent: 6125

Packets received: 6122

Buttons:

Add logic

Temperature:ac997400 changes state to: or:

Humidity:777201 changes state to: or:

Gase-00-2 changes state to: or:

Water-00-8 changes state to: or:

Magnet-55-8 changes state to: or:

Smoke-55-2 changes state to: or:

SNMP notify (192.168.1.1) changes state to: and:

Logic scheme name:

Buttons:

Simple interface of 5510.008

Monitoring system

Press ON or OFF button to switch power on or off. You may be asked to enter your password in order to execute this command.
 Sky control negotiation.exe program should be run on a computer if you want to proceed software poweroff or reboot. Your computer also should be connected to monitoring system by serial (COM) cable.

Outlet-00-1, 0.2A, 0Watt	Outlet-00-2, 0.2A, 0Watt	Outlet-00-3, 0.0A, 0Watt	Outlet-00-4, 0.0A, 0Watt	Outlet-00-5, 0.2A, 0Watt	Outlet-00-6, 0.0A, 0Watt	Outlet-00-7, 0.0A, 0Watt	Outlet-00-8, 0.0A, 0Watt
<input type="button" value="On"/> <input type="button" value="Off"/>	<input type="button" value="On"/> <input type="button" value="Off"/>	<input type="button" value="On"/> <input type="button" value="Off"/>	<input type="button" value="On"/> <input type="button" value="Off"/>	<input type="button" value="On"/> <input type="button" value="Off"/>	<input type="button" value="On"/> <input type="button" value="Off"/>	<input type="button" value="On"/> <input type="button" value="Off"/>	<input type="button" value="On"/> <input type="button" value="Off"/>
<input type="button" value="Software shutdown"/>	<input type="button" value="Software shutdown"/>	<input type="button" value="Software shutdown"/>	<input type="button" value="Software shutdown"/>	<input type="button" value="Software shutdown"/>	<input type="button" value="Software shutdown"/>	<input type="button" value="Software shutdown"/>	<input type="button" value="Software shutdown"/>
<input type="button" value="Software reboot"/>	<input type="button" value="Software reboot"/>	<input type="button" value="Software reboot"/>	<input type="button" value="Software reboot"/>	<input type="button" value="Software reboot"/>	<input type="button" value="Software reboot"/>	<input type="button" value="Software reboot"/>	<input type="button" value="Software reboot"/>
Add your comment. Yo	Add your comment. Yo	Add your comment. Yo	Add your comment. Yo	Add your comment. Yo	Add your comment. Yo	Add your comment. Yo	Add your comment. Yo

Future products

Wireless sensors

- Sensors of type 5500.9xx belong to wireless network.
- This network consists of up to 40 sensors and one central access point.
- 2.4Ghz band range is used.
- Network used is of star type.
- Sensors have a two-way transmission (to and from the central access point) through radio frequency, and the access point communicates with the master module through bus RS485.

Currently there are three types of wireless sensors developed:

5500.931 / Temperature, humidity, contact



CHARACTERISTICS:

- Can be installed near to the door or window, at opening the magnetic sensor breaks the circuit and the signal “OPEN” is transmitted.
- At the same time the sensor measures temperature and humidity in the building.
- Frequency band range: 2.4GHz; frequency band type: ISM/SRD, star network.
- For application in small areas.
- Power supply: 1 Lithium 3.6V battery

5500.960 / Temperature and smoke



CHARACTERISTICS:

- Can be installed anywhere in the room, if smoke is detected the signal “SMOKE” is transmitted.
- At the same time the sensor measures temperature.
- Frequency band range: 2.4GHz; frequency band type: ISM/SRD, star network.
- For application in small areas.
- Power supply: 2 Lithium AA 1.5V batteries

5500.970/ Temperature and motion



CHARACTERISTICS:

- Can be installed anywhere in the room, when movement is detected the signal “MOTION” is transmitted.
- At the same time the sensor measures temperature.
- Frequency band range: 2.4GHz; frequency band type: ISM/SRD, star network.
- For application in small areas.
- Power supply: 2 Lithium AA 1.5V batteries

Future products

Intelligent home



The main aim of “Smart home” is to provide convenience, comfort and safety of life. One of the measures to achieve these objectives is to have an intelligent management system which monitors all the events that take place.

Smart home system consists of a range of software and hardware that monitor the house both on site or remotely, and if necessary, allows autonomous operation of systems in the house.

Smart home systems have advantages over the industrial automation systems:

- convenient price, private user’s budget is much lower than large industrial users’
- moderate power consumption, system dimensions
- lower protective environmental requirements: climate, vibration, dust and water resistance etc
- possibility of installation in phases in unfinished premises, easy setting up and operation, and regular maintenance is not required
- a set of sensors, actuator devices and communication channels oriented for living spaces, UBI bus is used for connection of external devices;

Currently the system includes the following:

- fire alarm system, access control system, water and gas leak detection system,
- IP-monitoring system – remote control of all the systems in the network,
- GSM monitoring – remote notification system of incidents occurring in flat, office, site and management of the system via phone.

In development:

- video Surveillance System
- lighting and power control systems

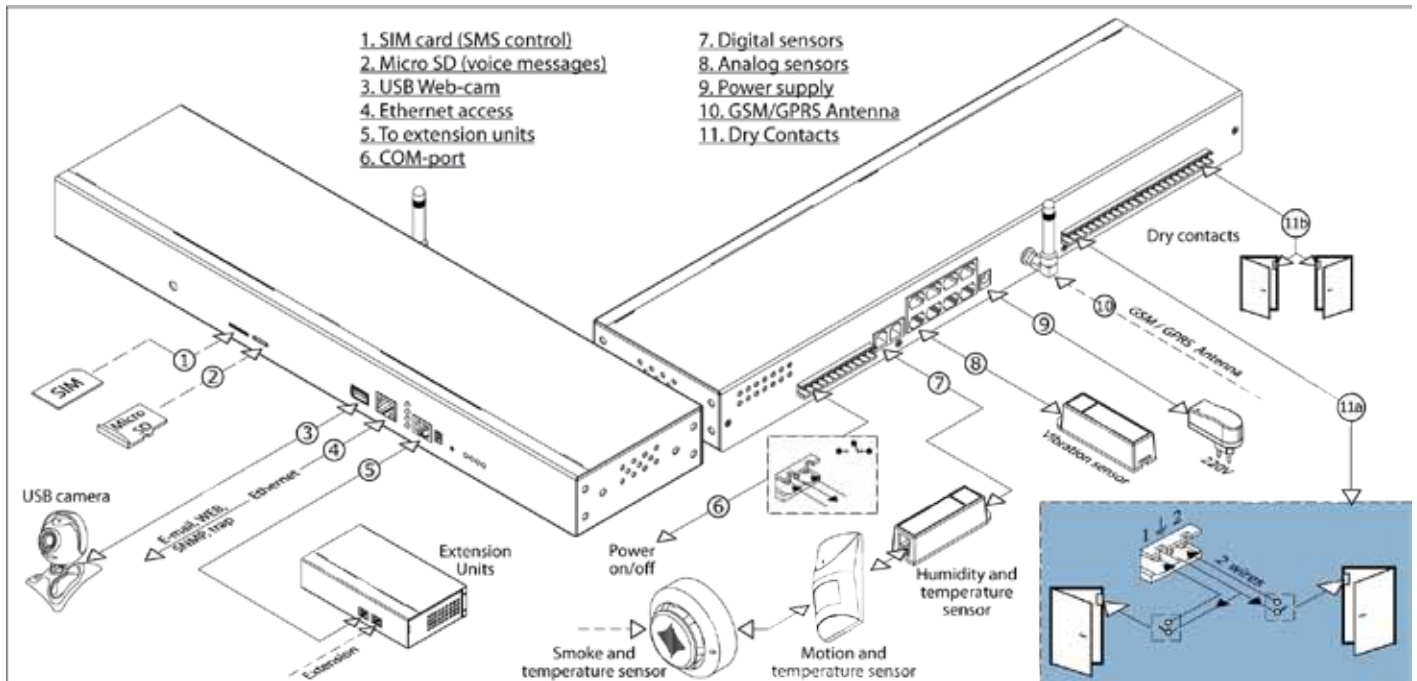
Planned:

- heating, ventilation and air conditioning control

Smart homes should be able to recognize different types of situations occurring in the building and determine the most appropriate response: to control the behavior of the system according to the given logic.

Monitoring Concept

IP Monitoring Units / 55xx.824



Monitoring concept

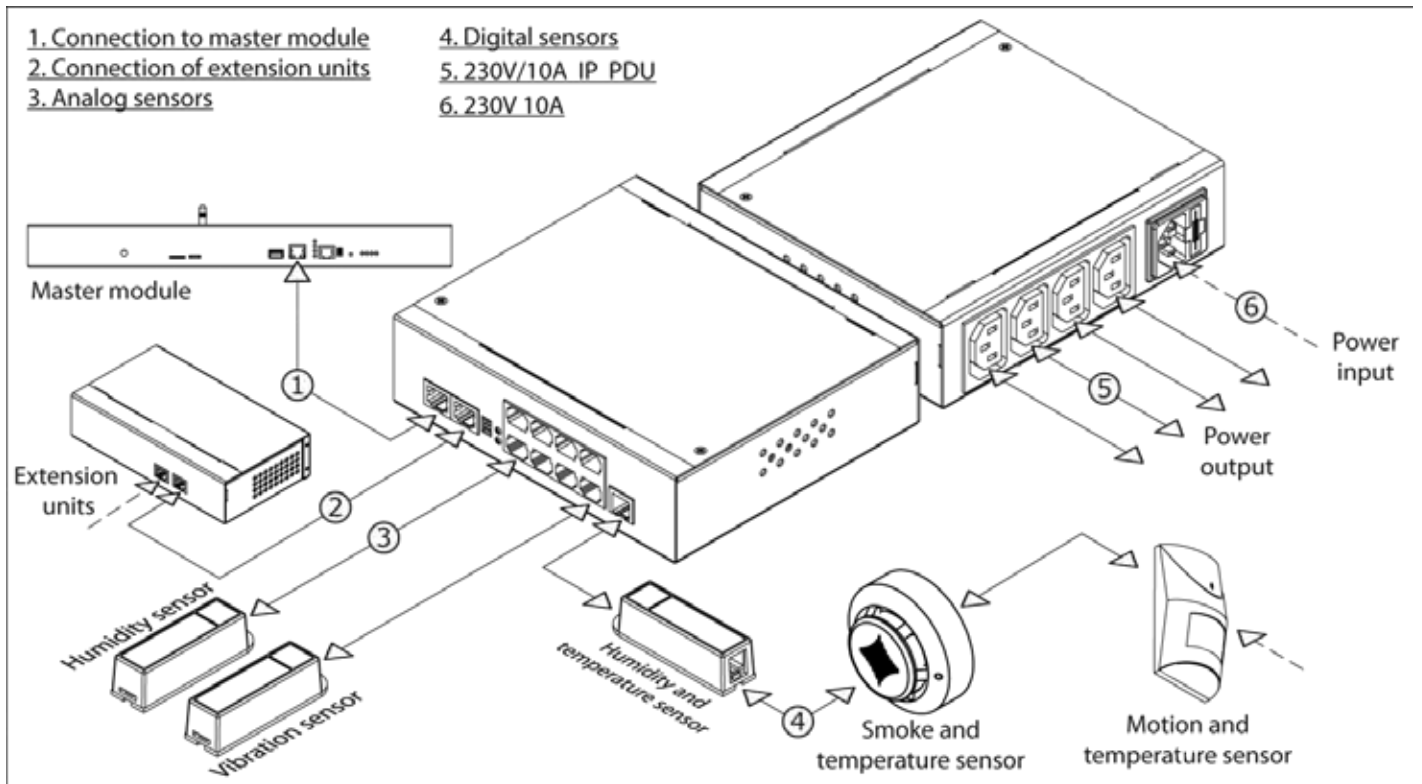
Sensors are connected to master unit's inputs, objects of power supply are connected to the relay, Web-camera is connected to master unit's USB input. Output LAN is connected to any external network, if its not present, LAN is connected to built-in GSM modem.

System logic is adjusted in such way that at an increase or reduction of temperature, variation of other sensors' readings, the contacts are switched on and power supply from the corresponding relay contacts is given to objects of power supply.

As a result, the system will automatically trace processes inside the premises or in a telecommunication rack, and counteract them. For instance, at rise of temperature over a certain point, the cooling fan switches on.

Monitoring Concept

Application of RS Extension Units / 5505.814



Functions of the system described above can be expanded by connecting additional modules. These modules allow to increase quantity of connected sensors and relay to one system and to increase functioning range. Necessity in such device can arise, for example, in a remote building or office with several floors. Required:

- Additional relay-sensor expansion module.
- Several sensors of physical parameters, such as temperature sensor, humidity, pressure, contact sensor.
- Fans, cooling devices, heaters, etc.
- Smoke sensors. Several sensors necessary for reduction of probability of false operation.
- If necessary leakage sensors, gas, voltage sensors.
- Siren, fire-fighting systems.
- Connection to Internet.

Sensors are connected to modules' inputs, power consumers (fans, coolers etc) are connected to relay connectors of modules. The system will automatically trace processes in a given premise or in a telecommunication rack, distinguish them and automatically warn and carry out actions registered in logic, for example send notifications to the administrator. Temperature and humidity sensors can be embedded in the module.

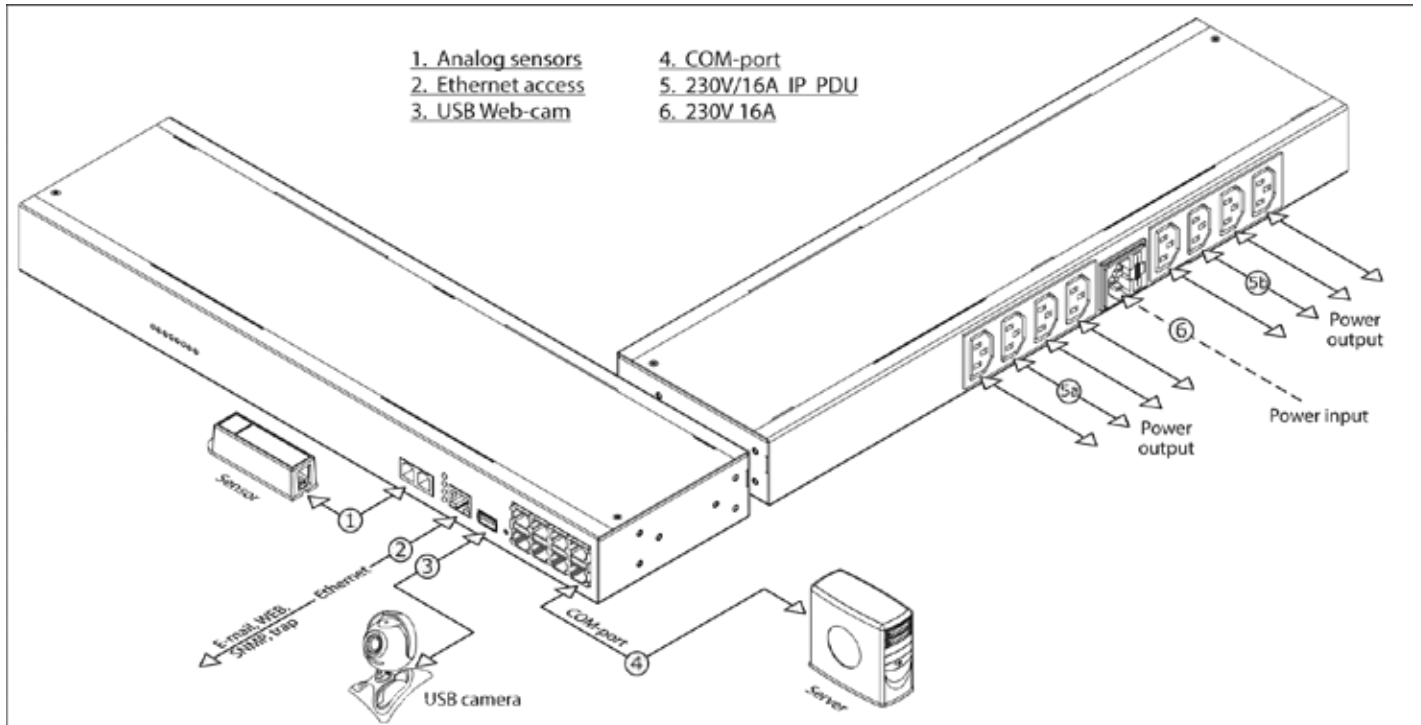
Power management

IP Switchable Metered PDUs / 5510.008, 5510.108

Remote power management of servers and other objects of power supply.

For realization of this system it is required:

- Any Monitoring master unit.
- As an extension — any Master unit that controls either outlets or relay outputs.



Depending on quantity of remotely operated sockets, corresponding types of units are selected.

The screen of administrator's web-control panel shows data about presence of voltage on each socket and if version of unit permits, size of the current going through the outlet. Administrator may be able to set a current clamp, logic of automatic or manual switching on/off separate sockets or a specific socket strip.

In such system any other extension units can be connected, allowing to monitor various sensors of temperature, humidity, gas, radiation, water, pressure and etc. as well as input readers controlling access to an object.

Certificate

EMC & CE certificates

All Sky Control products have passed EMC protocols and has CE certificate. Electromagnetic compatibility (EMC) is the ability of a device or system to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment.

Electromagnetic disturbance (noise) - any electromagnetic phenomenon which may degrade the performance of a device or system. Sky Control products were tested in accredited laboratory intended to check the operation of equipment under the influence of electromagnetic disturbances (noise). Emission tests are intended to measure of electromagnetic noise generated by equipment.

EMC compatibility ensures that all Sky Control products are able to perform without degradation under the influence of electromagnetic disturbances. This allows to use this equipment in places with very high electromagnetic noise such as server and telecommunication rooms, datacenters, electro panels and etc.

Partners



Belarus:

DATASTREAM DEP ooo
d.2-508, ul. Korolja, 220004
Minsk
Tel. +(37517) 226-5050
Tel. +(37517) 306-4566
Fax. +(37517) 200-88-61
www.datastream.by



Lithuania:

UAB SOMI RT
Lithuania, Vilnius, LT-03201
Smolensko 10A
Tel. +370 5 27090000
Tel. +370 37 778197
Tel. +370 46 271202
<http://www.somi.lt/>



Pakistan:

**ALPHA TECHNOLOGIES
INTERNATIONAL**
3rd floor, 9-A, Block-6PECHS
Karachi, 75400
Tel: +92 213 439 54 09
Tel: +92 213 453 30 28
Fax: +92 213 454 32 43
e-mail: ATI_info@ymail.com



Poland:

STEPSSYSTEMS
ul. Starokrakowska 133 A
26-600 Radom
Tel. +48 48 385 38 38
Mob. +48 505 04 17 17
Fax. ++48 48 385 39 41
www.stepsystems.pl



Romania:

TOTAL FIBER
14 Salciei Street, Bragadiru,
Ilfov, Romania
Tel: +40 21 423 23 78
Fax: +40 31 817 87 39
Kom. +40 740 56 11 56
e-mail: office@datacenter-shop.ro
Skype: totalfiber
<http://datacenter-shop.ro>



Turkey:

FIBER4U
135/91 34844 Maltepe,
Istanbul
Tel. +(90)216-371-53-33
Fax. +(90)216-371-53-82
www.fiber4u.com

Representatives



Russian Federation:

UNILAN ooo
office 162, d.3,
ul. Voronzovskie Prudy,
117630 Moscow
Tel. +7 495 913-4880
Tel. +7 495 742-4390
Fax. +7 499 7398114
www.unilan.ru

Headquarters



SKY CONTROL s.r.o.

ul. Svornosti 41, 82106
Bratislava, Slovak Republic
Tel: +421 908 399047
Tel: +421 908 399063
Skype: sky-control.sk
E-mail: info@skycontrol.com
www.skycontrol.com

