

RAMOS

INTELLIGENT
MONITORING
SYSTEM

CONTEG

RAMOS

The intelligent monitoring system is used to control the state of the environment (temperature, humidity, water leakage, smoke,...) in large data centers, server rooms, or individual racks. RAMOS can be also used for access control.



RAMOS Ultra ACS



RAMOS Plus

RAMOS Optimax



RAMOS consists of hardware components and software – the CONTEG Pro Server application. **Hardware** comes in 3 different versions of intelligent main monitoring units, which are differentiated by their functionality levels. Each version has different features, a different number of sensors as well as different inputs and outputs.

The **CONTEG Pro Server application** has a user-friendly web interface for sensor configuration, data collection, settings for transmitting information about monitored parameters in different ways (SNMP, e-mails, SMS, MMS, SMTP, ...) and extensive graphical display of values.

Types of RAMOS main units	Plus/Plus GSM	Optimax/Optimax GSM	Ultra/Ultra ACS
Intelligent ports (inputs)	4	8 (10)	8/2
Number of open virtual sensors (max. with licenses)	5 (40)	10 (80)	80
Expandable expanders	No	Up to 150 sensors including virtual	Up to 500 sensors
GSM function (SMS and call)	Only GSM version	Only GSM version	with USB modem
Protocols	SNMP (1, 2 a 3) Modbus TCP	SNMP (1, 2 and 3) Modbus TCP Modbus RTU with adapter	SNMP (1, 2 and 3) Modbus TCP and RTU
Suitable for	Single rack	Multiple racks or server room	Datacenter



Intelligent ports

Connection with LAN cables, automatically detects accessories and powers the accessories.



Virtual sensors

Allow monitoring of other devices, reading parameters via protocols, PING, etc. It is possible to integrate 3rd party devices (PDU, UPS, cooling, and others)



Notification

Email, commands via protocols, voice messages, SMS, etc.



Easy extensibility

By an expander for RAMOS Optimax and RAMOS Ultra



Remote control

Setup and remote control of the device using software CONTEG Pro Server application or via WEB UI



Siren & strobe light

is a combination sensor that emits a loud piercing sound and a visual blinking strobe light.



Programmable Display

shows up to 8 parameters from any intelligent or virtual sensor.

Electronic door lock with built in card reader

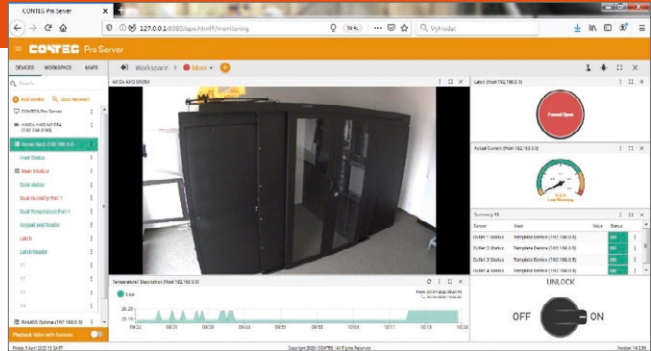
and door contact sensor enables to connect directly to the main unit RAMOS Optimax. The main unit controls up to 8 door locks.

Sensors for thermal mapping

for complete monitoring of the environment in racks, where it is possible to determine hotspots and adjust the installation of IT hardware, the performance of the cooling unit.

CONTEG Pro Server

DCIM software application for central monitoring, oversight over the monitored environment and access using RAMOS hardware. The application is used to monitor the physical infrastructure—allows setting user access rights, controlling cameras and sensors in the environment and locally and remotely monitors integrated IT devices (PDUs, UPSs, IP cameras, etc). CPS is also capable of sending notifications about alarms by SMS, MMS, e-mail or via various events.



Selected accessories



Sensors for Thermal Mapping

Using a single intelligent port is possible to monitor the temperatures of 3 layers at the racks. Only for Ramos Plus and Optimax.



Daisy-chain Temperature Sensor

The temperature sensor is designed for placement inside racks and measures temperature in the range -55 °C to +75 °C. Up to 8 sensors can be chain linked to a single intelligent port.



Programmable Display

The display shows up to 8 parameters in sequence, intelligent, and virtual sensors. Only for Ramos Plus and Optimax.



Rope Water Locating Sensor

The sensor is extendable to 50 meters of detection part and allows you to determine the point of contact with the liquid.



Smoke Detector

An essential security element with UL certification detects smoke.

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