

# ENVIRONMENT MONITORING SYSTEMS

The **RAMOS monitoring system** is used to control the state of the indoor and outdoor environment (temperature, humidity, water leakage, smoke,...) in large data centers, server rooms, or individual racks. It allows you to easily integrate and subsequently monitor other components, such as intelligent power distribution units (PDUs), backup power supplies (UPS), AC units, etc. The system supports remote control.

RAMOS consists of hardware components and software – the CONTEG Pro Server application. Hardware comes in 4 different versions of 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. A wide range of accessories is available for the units, such as detectors, sensors, sirens, magnetic door contacts, expansion modules, etc.

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.

	RAMOS Ultra/Ultra ACS	RAMOS Optimax/ Optimax GSM	RAMOS Plus/Plus GSM	RAMOS Mini
Suitable for	DC and server rooms	Multiple racks/cabinets or server room	Single or few racks/cabinets	Single racks/cabinets
Sensors	8x/2x intelligent ports (expandable up to 500 sensors)	8x intelligent ports and 10x digital inputs (expandable up to 150 sensors)	4x expandable up to 500 sensors	Up to 3 sensors (temperature and humidity) 1x digital IN 1x relay OUT
Virtual sensors	80x open	10x open (can be licensed up to 80)	5x open (can be licensed up to 40)	–
Communication	LAN: SNMP v1, v2 and v3, VPN Modbus TCP and RTU GSM: with plug-in USB GSM modem Serial: RS485 (Modbus only)	LAN: SNMP v1, v2 and v3 Modbus TCP, Modbus RTU via external adapter GSM: GSM version only	LAN: SNMP v1, v2 and v3 Modbus TCP GSM: GSM version only	LAN: SNMP v1 and v2 XML
Notifications	E-mails, SNMP traps SMS *, MMS *, Call *, Speech Skype call and SMS Relay control *, Door control * Server restart/shutdown/ wake-up	E-mails SNMP traps Siren and strobe * Relay * SMS variant with built-in GSM modem	E-mails SNMP traps Siren and strobe * Relay* SMS variant with built-in GSM modem	E-mails SNMP traps Relay
Integration to CONTEG Pro Server	Free	Free	Free	Licensed
Advantages	Intelligent ports variability Expandable solution Monitoring of 3rd-party devices Sensor mapping	Intelligent ports variability Expandable solution Variant with built-in GSM modem Monitoring of 3rd-party devices Rack thermal mapping	Intelligent ports variability Variant with built-in GSM modem Monitoring of 3rd-party devices Rack thermal mapping	Small and simple Manual relay control
Dimensions H x W x D	46 x 216 x 138 mm	44 x 432 x 50 mm (19" x 1RU)	32 x 115 x 64 mm	28 x 66 x 66 mm
Voltage	7.5 V DC/12 V DC	5 V DC	5 V DC	5 V DC

\* Requires appropriate accessories.