



CONTEG USER MANUAL

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USER MANUAL

RAMOS

Mini



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RAMOS Mini – supports up to two temperature or humidity sensors and additionally dry contact so that other sensors, for example flood detector or door contact can be monitored, with the ability to control an external equipment, such as automatic door handlers and electronic locks (with external power supply), PowerBox or other different equipment.

Package content:

- 1x RAMOS Mini (monitoring device; up to 2 sensors, dry contact a relay output)
- 1x RMS-ST-02 (1-Wire temperature sensor with 3m cable and RJ-12 connection)
- 2x Bracket (vertical and horizontal mounting) with screw
- 1x Power supply with universal plug 5VDC

Technical details of included sensor RMS-ST-02:

Sensor temperature range: -10°C to +80°C
 Sensor resolution: 0.01 °C
 Measuring accuracy: +/- 0.5 °C



Home / General page:

The home page contains two tabs:

1. The base information about name, time and date of monitoring device.
2. The sensors information about the connected sensors with actual state, name, type and current value. Include status of relay output too.

Base Information

Device Name	Ramos Mini
Time	10:23:09
Date	28.05.2012

Sensors

State	Name	Type	Current Value
	Sensor 215	Temp.	24.3 °C
NORMAL	In Dry Contact 1	Input Dry Contact	0 (Open)
-	Relay Contact 1	Output Realy Contact	0 (Off)

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Control page:

It is possible on the Control page to change status of relay manually with using button “Set”. If the button doesn’t work, it is necessary to change “Set State” on Input/output page to “Manual”

Output Relay

ID	Current State	Name	State Name		Set State
			Log 0	Log 1	
151	0 (Off)	Relay Contact 1	Off	On	<input type="button" value="Set 1 (On)"/>

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Graph page:

There is an option on this page to set one sensor to be graphed in configured time period. Graph can show up to 255 data logs. With moving cursor on graph line the time and actual value pop up.

The screenshot shows the 'Graph' page in the CONTEG RAMOS Mini web interface. At the top, there is a navigation menu with links: Home, Control, Graph, General Setup, SNMP, Email, Time, Sensors, Input/Output, Services, and System. Below the menu is a 'Graph settings' table:

Name	Value	Description
Graph source	Sensor 215	
Graph period	10 [s]	Time in Second, 0 = Disabled



Below the table is a 'Save' button. Underneath is a line graph titled 'Name: Sensor 215, Type:Temp.'. The y-axis represents temperature in degrees Celsius, ranging from -20 to 120. The x-axis represents time, with a specific point marked as '31.5.2012, 15:43:57'. A data point on the graph is highlighted with a callout box showing '28.2 °C'. At the bottom of the page, there is a footer: 'Ramos Mini: For more information try www.conteq.com'.

General Setup

On general Setup page is possible to change:

- Base: Device name, Temperature unit (Celsius, Fahrenheit, Kelvin)
- Network setup – DHCP, IP Address, Mask, Gateway, DNS, HTTP port
- Security: username and password settings for Admin and User able to control output.



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General Setup

Base

Name	Value	Description
Device Name	Ramos Mini	0 to 16 characters
WWW Info Text	Ramos Mini: For more information try www.conteg.com	
Temperature unit	Celsius	Celsius/Fahrenheit/Kelvin

Network

Name	Value	Description
DHCP	<input checked="" type="checkbox"/>	DHCP Enable/Disable
IP Address	192.168.161.117	A.B.C.D
Network Mask	255.255.255.0	A.B.C.D
Gateway	192.168.161.250	A.B.C.D
DNS Primary	192.168.161.5	A.B.C.D
DNS Secondary	192.168.98.43	A.B.C.D
HTTP Port	80	Default: 80

Security: Device Admin



Name	Value	Description
Username	<input type="text"/>	Admin username/password for device configuration changes [0 to 16 characters]
Password	<input type="password"/>	
Control Username	<input type="text"/>	Username/password for Output Relay control [0 to 16 characters]
Control Password	<input type="password"/>	

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SNMP

There is an option on the SNMP page to change:

- General SNMP settings: system name, location and contact. SNMP port
- SNMP Access: Community (public and private)
- SNMP trap destinations: optional two IP addresses with ports of destinations

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SNMP

General SNMP Settings

Name	Value	Description
System Name	Ramos Mini	0 to 16 characters
System Location		0 to 16 characters
System Contact	Ramos Mini: For more information try http://www.conteg.com	
SNMP port	161	Default port 161

SNMP Access

Community	Read	Write	Enable
public	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
private	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SNMP Trap Destination

Destination	Community	IP Address	Port	Enable
C.	Test1	192.168.1.3	162	<input type="checkbox"/>
D.	Test2	192.168.1.30	162	<input type="checkbox"/>

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Email

On this page, there are options to configure Email settings:

- SMTP server
- SMTP port
- Device email address
- Subject
- Authentication request
- Two recipients (with optional copy recipient)
- Buttons for testing email

The screenshot shows the 'Email' configuration page in the CONTEG RAMOS MINI web interface. The page has a navigation bar with links: Home, Control, Graph, General Setup, SNMP, Email, Time, Sensors, Input/Output, Services, System. The main content area is titled 'Email' and contains an 'Email Settings' table and 'Send Test Email' buttons.

Name	Value	Description
SMTP Server	some.smtp.server	IP Address or DNS Name
SMTP Port	25	Default 25
FROM	user@domain.com	Device email address
Subject	subject	Beginning of email subject
Authentication	<input type="checkbox"/>	Enable/Disable
Username	<input type="text"/>	0 to 32 characters
Password	<input type="text"/>	0 to 32 characters
TO	recipient@domain.com	Recipient A
CC	<input type="text"/>	
TO	recipient@domain.com	Recipient B
CC	<input type="text"/>	

Below the table is a 'Save' button. Underneath is a 'Send Test Email' section with two buttons: 'Test Recip. A' and 'Test Recip. B'.

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Time

Page for configuration of time, date, summertime changing. Optional synchronization with SNTP server.

Sensors

You can find a sensors setting on this page. Each sensor can be set to work in two ranges and each range can be set in two Alarm ways. Alarm email can be set to recipient A, B or both. Alarm trap can be set to IP addresses C, D or both. Each sensor has settable hysteresis.

When a sensor is unplugged, it is necessary to delete concrete sensor by bin button. If there are in the device memory unplugged two sensors, it is unavailable to find new connected sensors. When the memory is clear, press button "Find Sensors".



Sensors

Sensor 215												
State	ID	Type	Name	Current Value	Hyst.	Range	Save Range	Alarm Email		Alarm Trap		Del.
								A	B	C	D	
✔	215	Temp.	Sensor 215	23.0 °C	0.0	1	10.0 ~ 60.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
						2	10.0 ~ 60.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Sensor 216												
State	ID	Type	Name	Current Value	Hyst.	Range	Save Range	Alarm Email		Alarm Trap		Del.
								A	B	C	D	
✔	216	Humidity	Sensor 216	27.9 %RH	0.0	1	10.0 ~ 60.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
						2	10.0 ~ 60.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Input/Output

Page for setup dry contact input and relay output.

Dry contact input settings:

- Name can be changed for better recognition.
- State name for open and close can be changed
- Alarm alert can be configured to come up on close or open
- Alarm enabling (email and SNMP traps)

Relay output settings:

- Name can be changed for better recognition.
- State name for off and on can be changed
- Control can be set in "Set State" to be controlled manually or by local condition

Local condition can be controlled by:

- Alarm of single sensor range: turn relay on, when the value is out of set range.
- Alarm of any sensor: turn relay on, when any alarm come up
- Alarm of dry contacts: turn relay on, when Alarm is on dry contact (open or close option)



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Inputs

ID	Current State	Name	State Name		Alarm Alert	Email				SMTP Trap				
			Log 0	Log 1		A	B	C	D	A	B	C	D	
1	0 (Open)	In Dry Contact 1	Open	Close	Disabled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Alarm status connected to log "0"

Alarm status connected to log "1"

1 (Active if Close)
0 (Active if Open)

Outputs

ID	Current State	Name	State Name		Set State
			Log 0	Log 1	
151	0 (close)	Relay Contact 1	close	open	<input type="radio"/> Manual <input checked="" type="radio"/> Local Condition Set 1 (open) Output Relay Activated if alarm On Sensor 215, Range 2 Anysalarm On Sensor 215, Range 1 On Sensor 215, Range 2 On Sensor 216, Range 1 On Sensor 216, Range 2 On Input Dry Contact 1

Relay will change status on any Alarm (dry contact, sensor)

Relay will change status if the sensor 215 is out of range 1

Relay will change status with dry contact Alarm

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RAMOS Mini user manual

Services

This page is for setting up periodic Alarm. It is possible to setup interval of period.

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Services

Periodic Alarm		
Name	Value	Description
Period	<input type="text" value="0"/> [s]	Periodic alert when Alarm active [s], 0 = disable
Only if Alarm	<input type="checkbox"/>	Periodic Alarm only if some alarm.
Periodic SNMP Trap	<input checked="" type="checkbox"/>	Enable periodic alerts by SNMP Traps
Periodic Email	<input checked="" type="checkbox"/>	Enable periodic alerts by Emails

Save

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System

System page contains:

- Download files: Backup configuration, MIB table, XML script of sensors value and control.
- System information: version of FW, demo mode option, firmware or backup upgrade option.
- Reset buttons for default settings and system



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to complete your network

RAMOS
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System

Download	
Description	File
Backup configuration	RamosM_Config.bin
Online values in XML	values.xml
SNMP MIB Table	RamosM.mib
TXT list of common SNMP OIDs	RamosM_OID.txt
XML example for Relay control	Open_Relay.xml
XML example for Relay control	Close_Relay.xml

System	
Name	Value
Version	1.0.1
Compile time	May 25 2012, 15:24:08
Build	988
Vendor ID	0
UpTime	3 min
Demo Mode	Demo Mode Enable
Upload Firmware or Configuration	<input type="text"/> <input type="button" value="Procházet..."/> <input type="button" value="Upload"/>

Factory Default	System Restart
<input type="button" value="Default"/>	<input type="button" value="Restart"/>

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