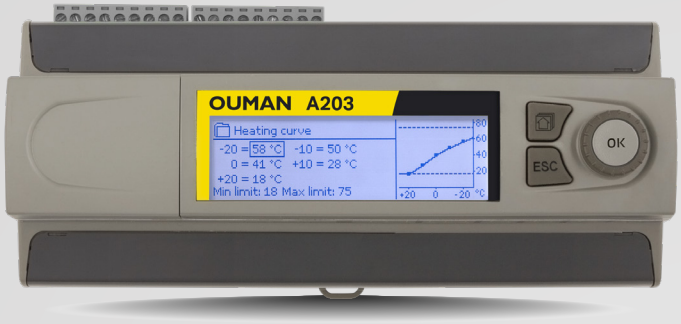
A203

OMA0650

OUMAN A203 represents a new, smarter control technology. It has numerous adjustment-improving and energy-saving features, as well as automatic functions sought after by professionals.

The A203 is a 3-circuit temperature controller that can be used to control two heating control circuits and one hot water control circuit. The controller's display in different operating situations varies according to the connections and commissioning selections.



The A203 is more than just a controller:

> Can control relay outputs time and / or temperature controlled based on outdoor temperatures or free measurement
> DIN rail mounting

WEB UI, Access & Ounet

No additional devices needed, just a working internet connection

5-point heating curve setting

Extensive properties specific to the heating method

User-friendly

Straightforward and familiar usability derived from previous Ouman controls

Modbus connections

Modbus TCP/IP

Modbus-RTU slave and Modbus RTU master as an additional controller's Gateway.

Power Source

Requires an external power source:

> 24 Vac, 50 Hz
(22 Vac - 33 Vac)

Languages

FI, EE, GB, LV, SE, LT, PL, RU

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AN ADVANCED HEATING CONTROLLER

Ouman A203 is a new generation DIN-rail mounted heat controller whose **versatility, intelligence and openness** make it a superior controller for water circulation heating systems. User-friendliness is a familiar Ouman quality – the informative display panel and the GSM Control feature guarantee reliable use regardless of time or place! The A203 can be connected to the Ounet service, making remote Internet use of the controller easy and intuitive.

EASY IMPLEMENTATION

In the commissioning menu, the desired control circuits are enabled and the most important choices related to the use of the controller are made. Based on the selections, the **controller offers setting values** that are a good starting point for more precise object-specific fine-tuning.

SIMPLIFIED FINE-TUNING WITH GRAPHICAL TREND DISPLAY

A203 shows the trends of temperature changes graphically, making it easier to understand the adjustment process. The **trend display helps** the controller installer, especially in tuning situations.

TWO SEPERATE HEATING CONTROL CIRCUITS

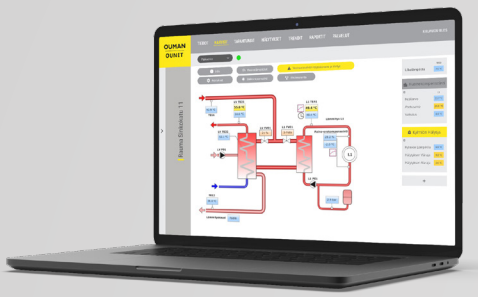
The A203 can be used to control **two separate** heating control circuits **independently** of each other. This means better energy efficiency as well as increased comfort and structural safety.

SUPPLY WATER REGULATION

The controller has a **sophisticated water control algorithm** that guarantees pleasant shower moments. Anticipatory adjustment and quick-run functions improve adjustment in situations of rapid consumption changes.

A203 & Remote Controlling

Remote controlling and monitoring for professionals (additional service).



+ **Ounet**
  Graph displays, tailored features and remote controlling.
+ **Mobile control**
  Access mobile control by connecting a GSM-modem (accessory) to the controller.
+ **WEB UI**
  A203's Internal web server enables remote controlling and monitoring. It provides other useful functions, such as generating graphical images of proccesses.

Extensive alarm functions

The A203's alarm functions include common features such as under- and over-temperature, sensor failure, as well as temperature deviation and freezing alarms. Furthermore, it offers the possibility to enable network pressure alarms with external information, as well as heating pump alarms with either conflict alarms or direct alarm information.

The A203 also features a double pump function, where two pumps can be used alternately in the heating circuit and/or so that one starts when the other pump fails and gives a conflict/alarm message.

Mobile control

With a GSM modem, the controller can be managed from a mobile phone. Alarms can be aknowledged and forwarded to five different numbers via text message.

Ounet

Remote control and monitoring of OUMAN's building automation systems can be done with a web browser.

To utilize Ounet, you will need to create an Ounet account and have a functioning network solution and adequate data security.

+ Extensive possibilities for collecting trend data on heating
+ The possibility of using the weather forecast to adjust the heating with the bus compensation function
+ Also for managing heating and other functions of a larger real estate mass

Suitable for every type of property

The deceleration function of the controller's outdoor temperature measurement takes into account the structural differences of properties. In fast outdoor temperature fluctuations, the controller works according to the average outdoor temperature for a longer period of time.

If underfloor heating is selected as the heating method, predicted temperature measurement can be used for flow water control. Typically, a 2-hour anticipation time is used (the time can be set in maintenance mode). The controller takes into account the rate of change of the outside temperature in the flow water control.

Uncomplicated installation

The A203 is designed to be installed in various different environments. The right installation location is easy to find, due to it's compact size.

The controller can also be installed directly in, for example, a district heating center. Clear connections make it easy to install cables and thus speed up connection and commissioning.

CONTACT US!

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https://ouman.fi

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Dimensions	width 213,5 mm, height 93,3 mm, depth 96,8 mm
Weight	0.7 kg
Protection class	IP 20
Operating temperature	0 °C...+40 °C. Attention! The maximum ambient temperature for Ouflex A XL can be +50°C, but in that case, Triac (42...44), as well as power supply outputs (41 and 93), can only be loaded with 50% of the maximum current.
Storing temperature	-20 °C...+70 °C
Power supply	
Operating voltage	24 Vac, 50 Hz (22 Vac - 33 Vac)
Power required	(15 Vdc output =if not connected) 13 VA (15 Vdc output = 600 mA) 34 VA Notice! Please consider power required for 24 Vac and Triac outputs.
Backup input	12 Vdc
Current consumption	370 mA / 4,5 W (relays not in use) 500 mA / 6 W (relays in use) (in addition, the load of the 15 vdc output and the voltage drop must be taken into account)
Universal measurement input (can be configured) measurement types and measurement accuracy:	
Passive sensors (inputs 1...13)	Measurement channel accuracy: • NTC10: ±0,3 °C between -20 °C...+130 °C, ±1,0 °C between -50 °C...-20 °C. • NTC 1.8 and NTC 2.2: ±0,4 °C between -50 °C...+100 °C, ±0,6 °C between +100°C...+130 °C (IO HW 1.x: ±0,6°C between-50...70°C and ±2,0°C between 70...130°C) • NTC 20: ±0,6 °C between -20 °C...+130 °C, ±2,0 °C between -50 °C...-20 °C • Ni1000LG, Ni1000/DIN and Pt1000: ±0,3 °C between -50 °C...+130 °C (IO HW 1.x: ±1,0°C between-50 ...130°C) Also sensor tolerances and the effect of cables must be considered when calculating total accuracy
Active sensors (inputs 4, 7, 12-14)	0...10 V voltage message, meas. accuracy ±0,1 V Milliamp signal 0/4 to 20 mA with 250 Ω or 500 Ω shunt resistor. Accuracy 250 Ω: ±0,2 mA (measuring range 0/1 to 5 Vdc). Accuracy 500 Ω ±1,3 mA (measuring range 0/2 - 10 Vdc) In addition, the parallel resistance tolerance must be taken into account
Contact information (inputs 10...16)	Contact voltage 3,3 Vdc. (IO HW 1.x: Contact voltage 5,0 Vdc) Contact current 1 mA. Contact resistance max 1,9 kΩ (closed), min 50 kΩ (open)
Digital input measurement types:	
Contact i nformation (inputs 21 and 22)	Contact voltage 15 Vdc. Contact current 1,5 mA Contact resistance max 500 Ω (closed), min 2 kΩ (open)
Counter inputs (inputs 21...22)	Minimum pulse length 30 ms
Analog outputs (61...66)	Output voltage range 0...10 V. Output current max 9 mA/output.
Relay output	
Change-over contact relay (71...76)	2 pcs, 230 V, resistive 5 A/ inductive 1A (cos Ø -0.8)
Normally open contact relay (77...84)	4 pcs, 230 V, resistive 5 A/ inductive 1A (cos Ø -0.8)
Triac outputs	
24 Vac (42 ... 43 and ⊥)	Output current max 0,75 A per triac par
24 Vac (44 ... 45 and ⊥)	Output current max 0,75 A per triac par
Operating voltage outputs	
5 pcs 24 Vac outputs (41 and ⊥)	Output current max 0,75 A /output
15 Vdc output	Output current max 600 mA
Data transfer connections	
RS-485 bus (A1 and B1)	Galvanically isolated, supported protocols Modbus-RTU (COM2)
RS-485 bus (A2 and B2)	Galvanically isolated, supported protocols Modbus-RTU (COM3)
USB-host connection	RS-232-modem (GSMMOD)
Ethernet	Full-duplex 10/100 Mbit/s, supported protocols Modbus-TCP/IP
Ouman Access	Intelligent remote connection built-in for use with Ounet.
Warranty	2 years

Ouman products do not contain harmful substances defined in the REACH regulation, excluding the products that are listed on the website behind the attached QR code.

CE Declaration of Conformity

We reserve the right to make changes to our products without a special notice.

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