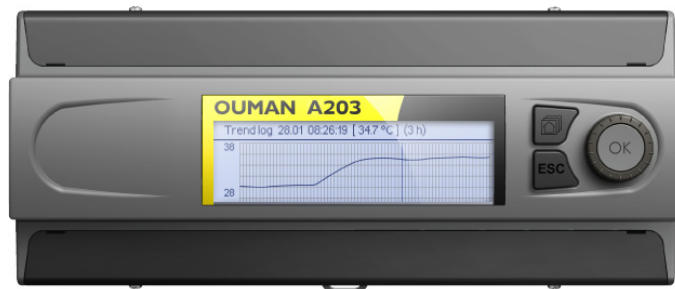


A203 Controller for the three circuits

The A203 is a heating controller for 3 circuits (two heating circuits and one hot water circuit). Wiring and configuring selections define what is seen on the display screen.



TECHNICAL SPECIFICATION

Product code	OMA0650
Dimensions	width 213,5 mm, height 97,5 mm, depth 100,5 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 requirement	(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 (92 and $\perp$)	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:	
Passive sensors (inputs 1...13)	Measurement channel accuracy: NTC10: $\pm 0,3$ °C between -20 °C...+130 °C, $\pm 1,0$ °C between -50 °C...-20 °C. NTC 1.8 and NTC 2.2: $\pm 0,4$ °C between -50 °C...+100 °C, $\pm 0,6$ °C between +100°C...+130 °C (IO HW 1.x: $\pm 0,6$ °C between -50...70°C and $\pm 2,0$ °C between 70...130°C) NTC 20: $\pm 0,6$ °C between -20 °C...+130 °C, $\pm 2,0$ °C between -50 °C...-20 °C Ni1000LG, Ni1000/DIN and Pt1000: $\pm 0,3$ °C between -50 °C...+130 °C (IO HW 1.x: $\pm 1,0$ °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 $\pm 0,1$ V Milliamp signal 0/4 to 20 mA with 250 Ω or 500 Ω shunt resistor. Accuracy 250 Ω : $\pm 0,2$ mA (measuring range 0/1 to 5 Vdc). Accuracy 500 Ω $\pm 1,3$ 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 k Ω (closed), min 50 k Ω (open)
Digital input measurement types:	
Contact information (inputs 21 and 22)	Contact voltage 15 Vdc. Contact current 1,5 mA Contact resistance max 500 Ω (closed), min 1,6 k Ω (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 (93 and )	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 and Ouflex BA Tool.
Warranty	2 years
Standards	
EMC: Emission	EN 61000-6-3:2020 (EN55022B)
Immunity	EN 61000-6-1:2016 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11)
Safety	EN 60730-1:2011
EMC-directive	2014/30/EU and the amending CE Directive 93/68/EEC
Low Voltage Directive	2014/35/EU and the amending CE Directive 93/68/EEC
RoHS Directive	2011/65/EU and 2015/863/EU
WEEE	DIRECTIVE 2012/19/EU Waste Electrical and Electronic Equipment