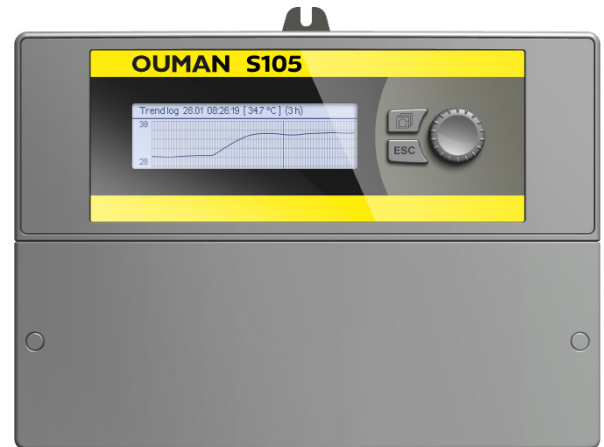


S105 Compact air handling unit controller



Ouman S105 is an intelligent air handling unit controller that is suitable for all kinds of applications.

The controller's diverse and innovative control solutions are as easy to use as the other Ouman controllers that have a reputation for user friendliness.

The controller makes it possible to maintain optimal air handling in spite of changing conditions in the room to be ventilated (temperature, CO₂ content, humidity, air volume, channel pressure).

TECHNICAL SPECIFICATIONS

Product code	OMA0603
Dimensions	width 230 mm, height 160 mm, depth 68 mm
Weight	1.3 kg
Protection class	IP41
Operating temperature	0 °C...+50 °C
Storing temperature	-20 °C...+70 °C
Power supply L(91), N (92)	
Operating voltage / Power requirement	The controller always requires 230 Vac / 200 mA. In addition, use an external 24VAC power supply if the combined power requirement for triac outputs and 24VAC outputs exceeds 23VA.
Maximum load for internal 24 VAC power supply	1A/23 VA
Front fuse	max 10A
Measurement inputs	All the measurement inputs also support 0...10 V measurement.
Sensor measurement (inputs 1-16, connectors 11-26)	Measurement channel accuracy -50...130 °C: Also sensor tolerances and the effect of cables must be considered when calculating total accuracy. - NTC10: ±0.1 °C between -50 °C...+100 °C and +0.25 °C between 100 °C...130 °C - NTC20: ±0.1 °C between -20 °C...130 °C and +0.5 °C between -50 °C...-20 °C - NTC2.2: ±0.1 °C between -50 °C...+100 °C and -0.6 °C between 100 °C...+130 °C - NTC1.8: ±0.1 °C between -50 °C...+100 °C and -0.4 °C between 100 °C...+130 °C - Ni1000LG: ±0,2 °C between -50 °C...+130 °C - Ni1000DIN: ±0,2 °C between -50 °C...+130 °C - Pt1000: ±0,2 °C between -50 °C...+130 °C
Milliampere signal (inputs 1-16, connectors 11-26)	Inputs 12-15 (terminals 22-25) directly support current measurement. If current measurement is connected to inputs 1 - 11 and 16 (terminals 11 - 21 and 26), a 500 Ω parallel resistor must be connected to the measurement channel. 0/4 - 20 mA current signal, measurement accuracy 0.1 mA. Note! If the measurement range of the transmitter measurement is different from 0 - 20 mA, change the Minimum /Maximum setting values of that input (Input configuration -> UIx -> Advanced settings)
Voltage measurement (inputs 1-16, connectors 11-26)	0 (2) -10V voltage message, meas. accuracy 50 mV. Note! If the measurement range of the transmitter measurement is different from 0 - 10V, change the Minimum /Maximum setting values of that input (Input configuration -> UIx -> Advanced settings)
Digital inputs (inputs 1-16 and DI1 - DI2, connectors 11-28)	Contact voltage 15 Vdc. Contact current 0,5 mA Contact resistance max 500 Ω (closed), min 11 kΩ (open)

Analog outputs (53,54,64,66,68,70)	Output voltage range 0...10 V. Output current max 7 mA /output. Note! If the measurement range of the transmitter measurement is different from 0 - 10V, change the Minimum /Maximum setting values of that input (Input configuration -> ULx -> Advanced settings)
15V voltage output(1)	15 VDC output maximum load 100 mA.
24 VAC voltage outputs (51, 52)	Output current max. 1A / output. Without external power supply the total continuous load capacity of triac outputs and 24 Vac outputs is 23 VA.
Control outputs Triac (55...60)	24 Vac. Triac-outputs are in pairs (55, 56), (57, 58) and (59, 60). The total current output of each pair is max. 1A. Without external power supply the total continuous load capacity of triac outputs and 24 Vac outputs is 23VA.
Data transfer connections	
RS-485-bus (3 and 6) (A and B)	Galvanically isolated, supported protocols Modbus-RTU
MicroSD memory card	Memory card is not included in the delivery. Technical requirements to microSD memory card: Standard micro SDHC, UHS, Capacity 512 MB...32 GB, File system FAT 32, Class: 4...10+
Warranty	2 years
Directives	
Low Voltage Directive	2014/35/EU
EMC-directive	2014/30/EU
Ecodesign and Energy Labelling Directive	2009/125/EC
RoHS Directive	2011/65/EU
Standards	
LVD:	EN 60730-1:2011 EN 62233:2008
EMC:	EN 60730-1:2011 EN 61000-3-2:2014 EN 61000-3-3:2013
Ecodesign	2015/1188