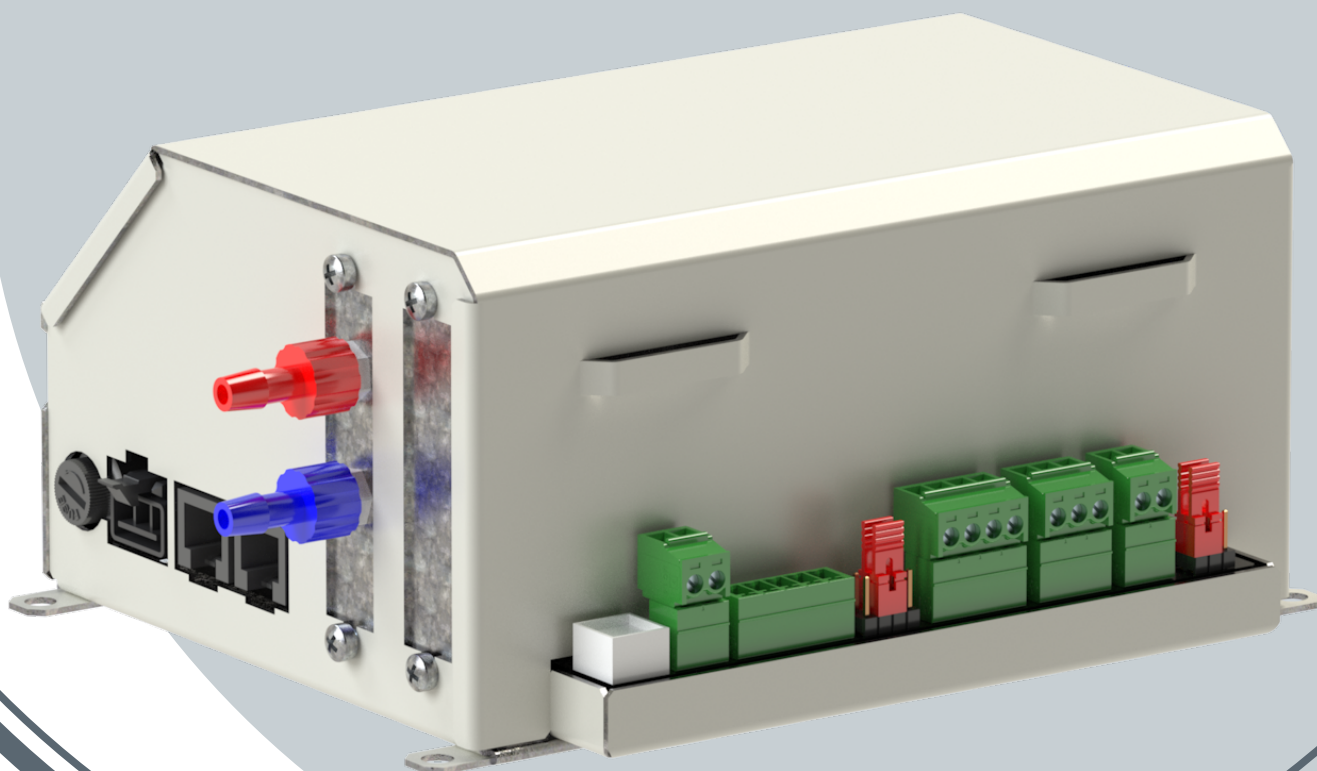




Technical Datasheet

Variable Air Volume Controller

VAV400



SCHAKO Group

1 Technical Data

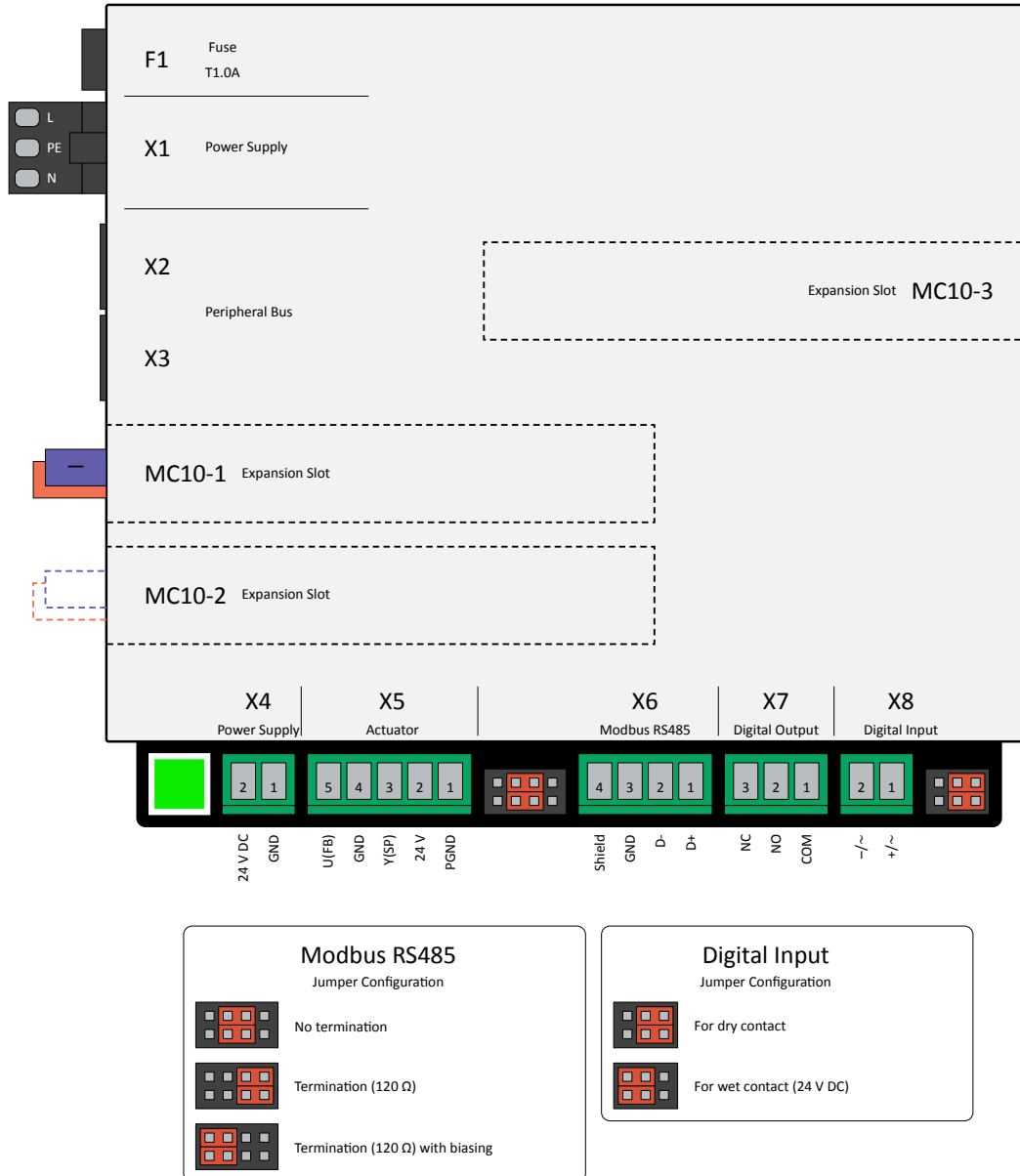
General	
Operating temperature	+15°C to +40°C
Storage temperature	-20°C to +65°C
Recovery time	5 to 10 s
Humidity	≤ 80 % relative, non-condensing
Overvoltage Category	II
Pollution Degree	2
Protection Class	Class I (Option INT) / Class III (Option EXT)
Application environment	Indoor use only
Operating altitude	≤2000 m above sea level
Enclosure	
Ingress Protection Rating	IP20
Material	Galvanized sheet steel, coated on one side
Color	similar to RAL 9002
Dimensions (L × W × H)	161 × 115 × 78 mm
Weight	approx. 650 g (Option INT) / approx. 800 g (Option EXT)
SELV/PELV Supply Input (Option EXT)	
Input voltage range (AC)	24 V AC ±10 %
Frequency range (AC)	47 to 63 Hz
Input voltage range (DC)	22.8 to 26.4 V DC
Rated current	1.25 A
Rated power	30 W
Connection type	Screw terminal
Conductor cross-section, solid / stranded	0.08 to 1.5 mm ²
Integrated protection	Short-circuit, overload, overvoltage
Mains Terminal Supply (Option INT)	
Input voltage range (AC)	100 to 240 V AC ±10 %
Frequency range (AC)	47 to 63 Hz
Rated current	0.8 A
Rated power	40 W
Connection type	Spring terminal
Conductor cross-section, solid / stranded	0.25 to 1.5 mm ²
Integrated protection	Short-circuit, overload, overvoltage Cartridge fuse 5 × 20 mm 250 V / T 1.0 A
SELV/PELV Output (Option INT)	
Output voltage range (DC)	21.7 to 24.72 V DC
Rated current	0.33 A

Rated power	8 W
Connection type	Screw terminal
Conductor cross-section, solid / stranded	0.08 to 1.5 mm ²
Integrated protection	Short-circuit, overload, overvoltage
Relay Output	
Quantity	2
Contact type	Change-over contact (CO)
Maximum switching voltage	24 V AC / DC
Maximum continuous current	3 A, external fuse required
Conductor cross-section, solid / stranded	0.08 to 1.5 mm ²
Digital Input	
Quantity	1
Input voltage	24 V AC / DC
Max. input current	≤ 10 mA
Active signal voltage	1.2 V to 28 V DC
Inactive signal voltage	0 V to 1.2 V DC
Auxiliary voltage (internal)	24 V DC for external switch contact
Integrated protection	Short-circuit, overload, overvoltage
Conductor cross-section, solid / stranded	0.08 to 1.5 mm ²
Fast-Running Modulating Damper Actuator	
Quantity	1
Rated voltage	24 V AC/DC
Torque	4 Nm (LMQ24A-SR-SCE), optional 8 Nm (NMQ24A-SR-SCE)
Travel time	2.5 s at 4 Nm, 4 s at 8 Nm for 90°
Control signal	Analog, 0(2) to 10 V DC
Feedback signal	Analog, 0(2) to 10 V DC
Resolution	< 0.5°
Differential Pressure Sensor	
Quantity	1 to 2
Pressure range	0 to 300 Pa -150 to +150 Pa 10 to 1000 Pa
Response time	< 10 ms
Sensor burst pressure	0.3 bar
RS-485 Interface (Option M)	
Quantity	1
Data rate	up to 115 kBd
Protocols	Modbus RTU
Cable	e.g., JY(St)Y 2 × 2 × 0.8, shielded

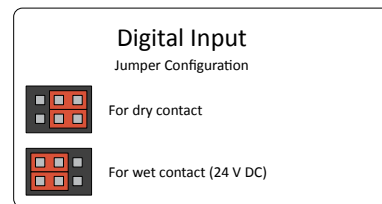
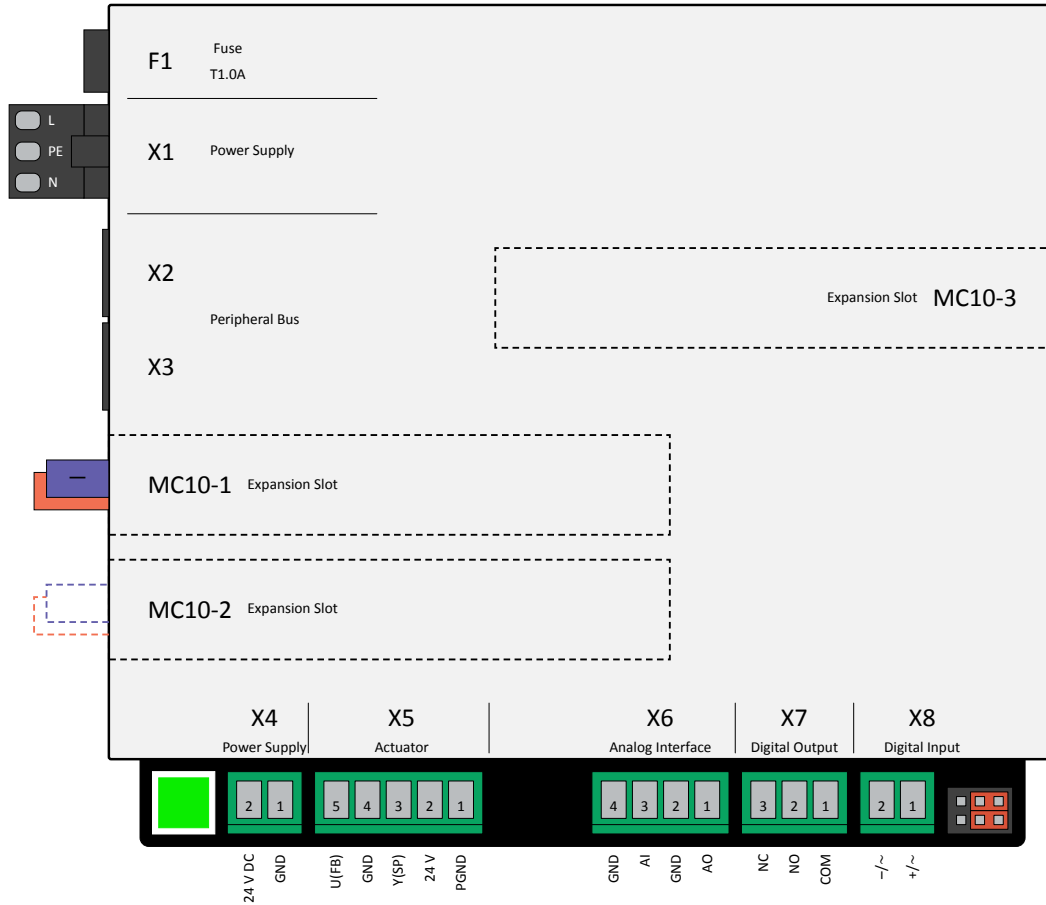
Analog Output (Option A)	
Quantity	1
Output voltage	0 V to 10 V DC $\pm 1\%$, freely configurable
Max. output current	0–20 mA $\pm 1\%$, freely configurable
Resolution	10-bit
Load (voltage output)	$R_L \geq 500\ \Omega$
Load (current output)	$R_L \leq 500\ \Omega$
Integrated protection	Short-circuit, overload, overvoltage
Conductor cross-section, solid / stranded	0.08 to 1.5 mm ²
Analog Input (Option A)	
Quantity	1
Input voltage	0 V to 10 V DC $\pm 1\%$
Max. input current	0–20 mA $\pm 1\%$
Resolution	10-bit
Input impedance (current input)	149.85 to 200.7 Ω
Input impedance (voltage input)	approx. 200 k Ω
Response time	< 10 ms
Integrated protection	Short-circuit, overload, overvoltage
Conductor cross-section, solid / stranded	0.08 to 1.5 mm ²

Table 1: Technical Data

2 Terminal Diagram VAV400M



3 Terminal Diagram VAV400A





The information and data contained in this documentation have been compiled to the best of our knowledge and in accordance with the current state of the art (subject to technical changes). The currently valid version applies. The proven properties of SCHNEIDER products are based on the use of the products recommended in this documentation. Diverging situations and individual cases are not taken into account, so that we cannot assume any warranty and liability.

As of August 2025

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Do you have any questions? We look forward to your message:

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