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OpenAir damper actuators speak every language

Actuators for air volume control with easy parameterization, utmost precision and maximum flexibility

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VAV controllers are available in the standard version or with bus communication. They are ideal for applications using small to very large boxes. Additional options such as auxiliary switches are also available.

Practical installation

OpenAir™ actuators for air volume control allow for easy and fast parameterization. Typically, only three OEM-specific device characteristics have to be entered for VAV¹⁾ box adjustment. In addition, a range of operating modes and communication buses permit easy integration into any application and any system – whether from Siemens or from a third-party supplier. A bus connection replaces the point-to-point wiring in large installations. Number- and color-coded cables as well as well-marked connection nozzles for pressure tubes make installation easier.




Ideal for all variable air volumes

The quasi-static pressure measuring principle and sophisticated control algorithm make sure that the VAV controllers work at high speed and with maximum precision.



The AST20 handheld operating unit for all VAV controllers has a convenient ergonomic design. It facilitates commissioning and service thanks to its intuitive menu guidance and user-friendly display.

¹⁾ VAV = variable air volume

Actuators for air volume control 300 Pa application range		Control signal	Operating voltage	Standard model	Dimensions, round damper shaft (mm)	Dimensions, square damper shaft (mm)
	GDB 300 Pa VAV compact controller²⁾ 5 Nm for approx. 0.8 m ² damper area 150 s running time	3-position	AC 24 V	GDB181.1E/3	8...16	6...12.8
		Modulating DC 0/2...10 V	AC 24 V			
		KNX S-/LTE-Mode, KNX PL-Link	AC 24 V	GDB181.1E/KN		
		Modbus RTU	AC 24 V	GDB181.1E/MO		
		BACnet MS/TP	AC 24 V	GDB181.1E/BA		
	GLB 300 Pa VAV compact controller²⁾ 10 Nm for approx. 1.5 m ² damper area 150 s running time	3-Punkt	AC 24 V	GLB181.1E/3	8...16	6...12.8
		Modulating DC 0/2...10 V	AC 24 V			
		KNX S-/LTE-Mode, KNX PL-Link	AC 24 V	GLB181.1E/KN		
		Modbus RTU	AC 24 V	GLB181.1E/MO		
		BACnet MS/TP	AC 24 V	GLB181.1E/BA		
	ASV 300 Pa VAV modular controller²⁾	3-position	AC 24 V	ASV181.1E/3	–	–
		Modulating DC 0/2...10 V	AC 24 V			

²⁾ Available to OEMs only

Actuators for every situation

With all actuators, you benefit from damper position feedback and highly efficient, quiet motor technology. The VAV compact controllers give you a choice between KNX S-/LTE-Mode, KNX PL-Link, Modbus RTU and BACnet MS/TP so that you always have the right actuator for every application and can precisely monitor the efficiency of your plant.

Do you need an actuator with a spring return or one for a 3 m² damper? No problem! Thanks to the VAV modular controller, you can use any actuator from the OpenAir product range for variable air volume systems.

Flexible design

All OpenAir actuators can be customized (cable length, cable type, logo and connector system). Contact your Siemens representative who will be happy to advise you on the terms and conditions as well as the ordering procedure.

Support for every issue

Not only do you benefit from Siemens' global service network but also from practical product training, comprehensive technical documentation and helpful tools – either product replacement tools or the HIT. Siemens is always there for you.

Highlights

- All common communication standards from a single source
- High level of accuracy thanks to fast and location-independent measured value acquisition
- Long-term stability without aging and temperature drift
- Fast commissioning through simple adjustment to VAV boxes
- Can be customized to your specific needs: label, connector, cable length and cable type

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