



OpenAir™ (Optional)

Interface converter for VAV compact controllers

AST11

The interface converter is used to convert the PPS2 into an RS-232 or USB interface signal.

It is suited for use with the following types of devices:

- VAV compact controller GDB181.1E/3 and GLB181.1E/3
- VAV modular controller ASV181.1E/3
- VAV compact controller KNX/PL-Link GDB181.1E/KN and GLB181.1E/KN

The interface converter is used together with the PC software ACS931 or ACS941.

The ACS941 PC software can be downloaded free of charge at

www.siemens.com/openair

Ordering and delivery

When ordering, please provide the name and type reference.

Interface converter AST11, consisting of:

- AST11 (interface converter)
- Connecting cables for the connection between AST11 and VAV compact controllers
- USB – RS-232 converter
- Operating instructions

Note

Naming conventions

In the following, the designation VAV compact controller applies equally to the actual VAV compact controller G..B181.1E/.. as well as the VAV modular controller ASV181.1E/3.

ACS941

The ACS941 PC software can be downloaded free of charge at www.siemens.com/openair

Mode of operation

The AST11 converts the PPS2 communication signal of a VAV compact controller into an RS-232 signal. A PC equipped with the PC software ACS931 or ACS941 allows data communication for parameterizing the VAV compact controller via its RS-232 port.

The AST11 has an incorporated galvanic insulation.

The connection to the PC is made via the 9-pin RS-232 connector integrated on the AST11 or a USB type A plug.

The connection between interface converter and VAV compact controller is established with one of the supplied connecting cables (refer to "Mounting notes" and "Connection diagrams").

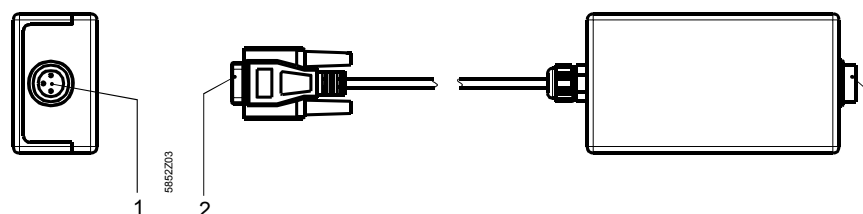
When operating voltage is applied to the interconnected devices, the PC software ACS931 or ACS941 are ready for operation after about 5 seconds, which means that parameter settings or read-outs are then possible.

The functions available for selection depend on the connected type of device.

Mechanical design

The interface converter consists of a plastic housing and a printed circuit board with a 3-pin and a 9-pin RS-232 connector.

Connecting elements



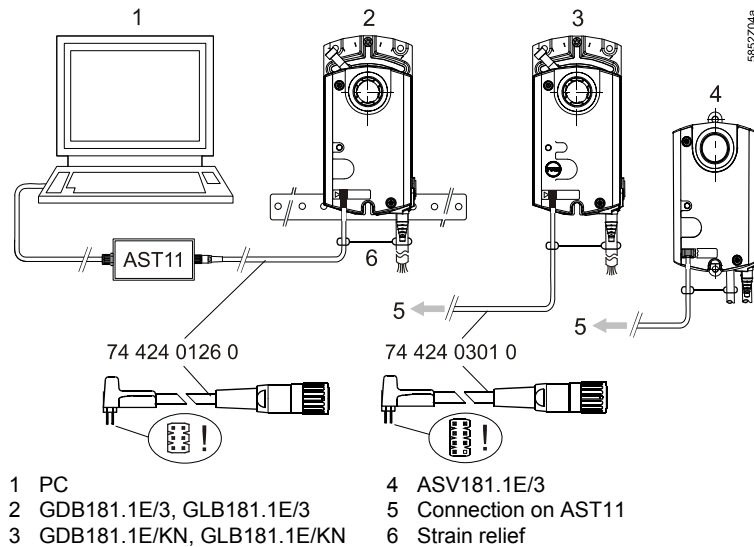
- 1 Amphenol socket for connecting cable PPS2
- 2 Plug for RS-232 interface

Accessories (included in delivery)

Name	Length	Order number
Connecting cable with 3-pin socket and ferrules	1 m	74 424 0125 0
Connecting cable with 3-pin socket and 6-pin plug	2.5 m	74 424 0126 0
Connecting cable with 3-pin socket and 7-pin plug	2.5 m	74 424 0301 0
USB – RS-232 converter		

Mounting notes

When using the connecting cable with the 6 or 7-pin plug, attach the tension relief band at the cable to the VAV compact and modular controllers as shown in the following illustration.



Technical data

Power supply G, G0 Signal input/output Communications signal YC ⚠ Housing protection type and -Safety class	Operating voltage	AC 24 V ±20 %.
	Safety extra low-voltage (SELV) (PELV) as per requirements for external	HD 384
	Safety isolation transformer (100 % time on)	EN 60742
	Frequency	50/60 Hz
	Power consumption	2 VA
	Communications signal type protecting against incorrect connection	PPS2 Max. AC 24 V
	Protection class as per EN 60529	IP30
	Insulation class as per EN 60730	III
	Galvanical separation between PPS2 and RS-232	Interface incorporated
	Operating/Transport	IEC 721-3-3 / IEC 721-3-2
Environmental conditions	Climatic conditions	Class 3K5 / Class 2K3
	Temperature	0...50 °C / -25...70 °C
	Humidity (non-condensing)	<85 % r.h. / <95 % r.h.
Standards and guidelines	Mechanical conditions	Class 2M2
	Product standards	
	Automatic electronic controls for Household and similar use	EN 60730-2-14 (Mode of operation, type 1)
	Electromagnetic compatibility	
	Immunity	EN 61000-6-2
	Emissions	EN 61000-6-3
	CE conformance	
	EMC directive	2004/108/EC
	C-Tick conformity	
	Emissions	AS/NZS 61000-6-3
Dimensions	W x H x D	See "Dimensions"
Weight	Without packaging	0.05 kg
Connecting cable	Cable type, number of wires and diameter	VDE Li-YY, 3-wire 0.34 mm ²
	Cable length for cable with 6 or 7-pin plug	Ca. 2.5 m
	Cable length for cables with ferrules	Ca. 1 m

Diagrams

Wiring coding

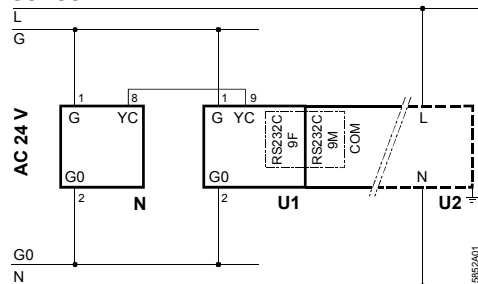
Connection cable with ferrules (color coded and labeled):

Wiring labeling	Wire color	Terminal code	Meaning
1	Brown (BR)	G	System potential AC 24 V
2	White (WT)	G0	System zero AC 24 V
8	Green (GR)	UC/YC	Communications signal

Connection diagrams

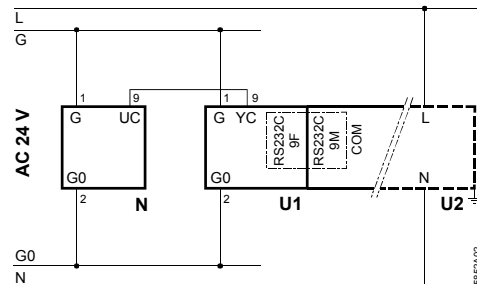
Example connection
cable 74 424 0125 0

With VAV compact controller as of
series B



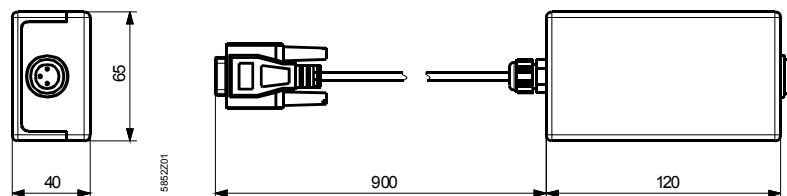
N VAV compact controller
U1 Interface converter AST11
U2 PC

With VAV compact controller series A

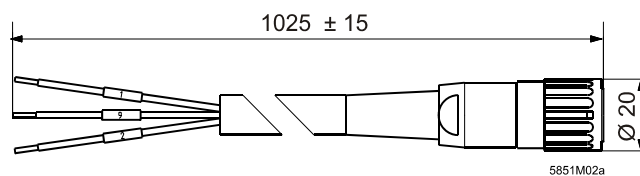


Dimensions

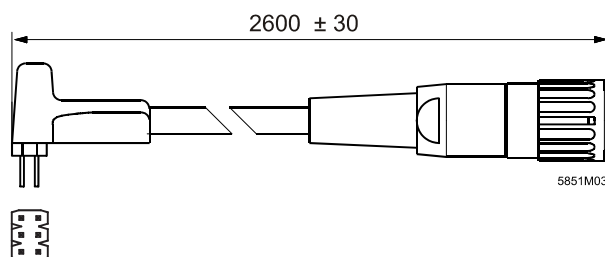
AST11



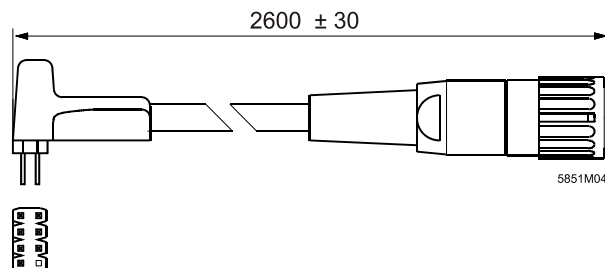
74 424 0125 0



74 424 0126 0



74 424 0301 0



Dimensions in mm