

Adjustment devices for VAV terminal units

Adjustment devices



For service and commissioning

Adjustment devices for the service and commissioning of VAV terminal units. To display current values and parameters and for functional testing.

- Display of actual and setpoint values
- Display and changing of parameters and operating modes
- Simple connection to the service socket of the controller or to a terminal in the switch cabinet
- Easy operation
- Portable devices for use on site

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Application

Application

- Adjustment devices for VAV terminal units for simplifying service and commissioning
 - Reading actual values and setpoint values
 - Reading and changing parameters
 - Reading and setting operating modes
 - Functional test
-

Description

Parts and characteristics

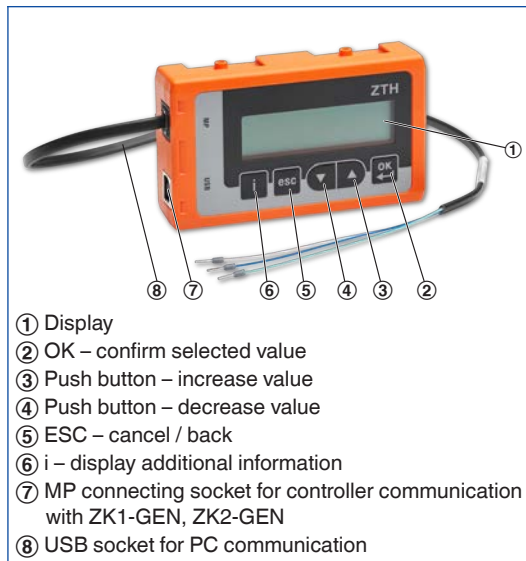
- Adjustment device
- Connecting cable

Functional description

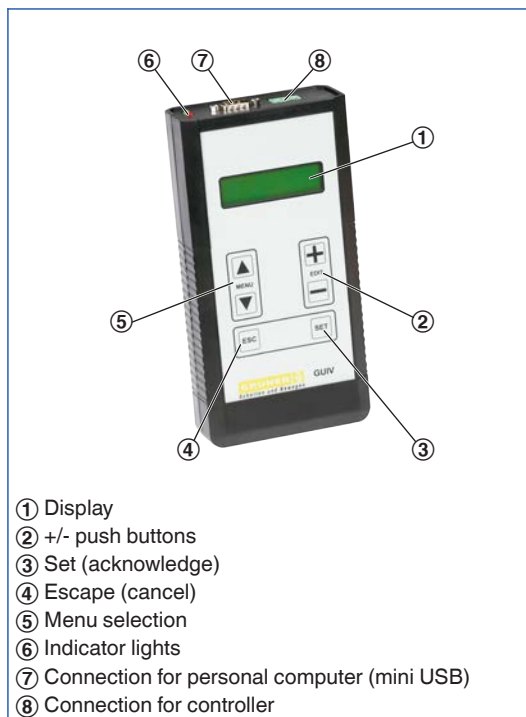
The adjustment device communicates on the voltage signal line for the actual value or setpoint value signal with the controller.

The adjustment device detects the connected controller type and enables access to the operating values and parameters respectively available. The values are displayed. Operation is via buttons.

AT-VAV-B



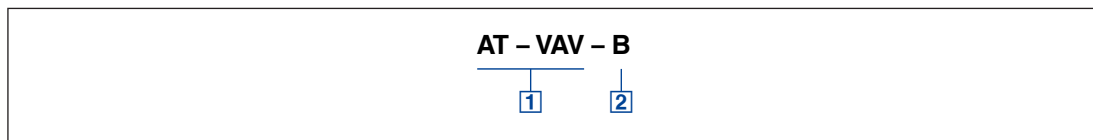
AT-VAV-G



AST20



AT



[1](#) Type

AT-VAV Adjustment devices for VAV terminal units

[2](#) Variants

- B** ZTH-EU for TROX/Belimo volume flow controllers
- G** GUIV-A for TROX/Gruner volume flow controllers
- S** AST20 for Siemens volume flow controllers

Sample order: AT-VAV - S

Adjustment device for volume flow controllers

AST20 for Siemens volume flow controllers

AT-VAV-B

Application

- Adjustment device type ZTH-EU for VAV terminal units with TROX/Belimo volume flow controllers for simplifying service and commissioning
- Reading actual values and setpoint values
- Reading and changing \dot{V}_{\min} and \dot{V}_{\max}
- Reading and changing signal voltage ranges
- Reading and setting the operating mode
- Resetting the parameters to the factory settings
- MP bus test
- Measuring and displaying supply voltage
- Integrated interface (ZIP-USB function) for connecting to a notebook with installed Belimo PC tool

Compatible volume flow controllers

Volume flow controllers are defined as attach-

ments of the volume flow terminal unit

- BC0; BF0: LMV-D*-MP, NMV-D*-MP
- BL0: LMV-D3LON, NMV-D3LON
- BM0: LMV-D3-MOD*, NMV-D3-MOD*
- BP1, BP3, BPB, BPG; BR1, BR3, BRB, BRG; BS1, BS3, BSB, BSG: VRP-M
- B11, B13, B1B; B27: VRD3

Parts and characteristics

- Adjustment device ZTH-EU
- Connecting cable 1 (ZK1-GEN) for controllers with Belimo round plug
- Connecting cable 2 (ZK2-GEN) with bare wire ends for terminal or switch cabinet connection
- Connecting cable USB 2.0 for PCs with Belimo PC tool

AT-VAV-G

Application

- Adjustment device type GUIV-A for VAV terminal units with TROX/Gruner volume flow controllers for simplifying service and commissioning
- Reading actual values and setpoint values
- Reading and changing \dot{V}_{\min} and \dot{V}_{\max}
- Reading and changing signal voltage ranges
- Reading and setting the operating mode
- Resetting the parameters to the factory settings
- Integrated interface (replaces GUIV-S) for connecting to a notebook with installed Gruner VAV tool software

Compatible volume flow controllers

Volume flow controllers are defined as attach-

ments of the volume flow terminal unit

- XB0, XG0: 227V-024-**-**
- XB4: GUAC-DM3
- XC3: GUAC-D3
- XD0: 227V-024-10-DS3
- XD1, XD3: GUAC-S3
- XD4: GUAC-SM3
- XE1, XE3: GUAC-P1
- XF0: 227P-024-15-DS6
- XF1, XF3: GUAC-P6
- XF4: GUAC-PM6

Parts and characteristics

- Adjustment device
- Connecting cable 1 with plug for connecting to the compact controller/type GUAC
- Connecting cable 2 with bare wire ends for connecting to terminals
- GUIV USB cable (USB on Micro-USB)

AT-VAV-S

Application

- Adjustment device AST20 for VAV terminal units with Siemens volume flow controllers for simplifying service and maintenance
- Reading actual values and setpoint values
- Reading and changing \dot{V}_{\min} and \dot{V}_{\max}
- Reading and setting the operating mode
- Setting communication parameters for compact controllers with bus interface
- Resetting the parameters to the factory settings

Compatible volume flow controllers

Volume flow controllers are defined as attach-

ments of the volume flow terminal unit

- LN0, LY0: GLB181.1E/3
- LK0: GLB181.1E/KN
- Adjustment device is also suitable for Siemens compact controllers GLB181.1E/BA (BACnet) and GLB181.1E/MO (Modbus) and the respective 5 Nm derivate GLD181.1E/xx

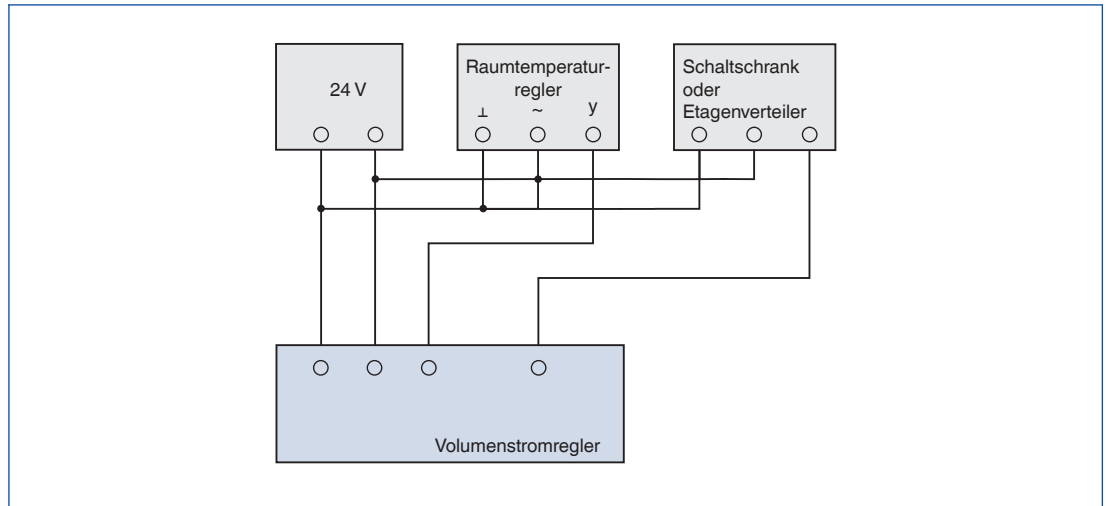
Parts and characteristics

- Adjustment device
- Connecting cable 1 with 3-pin socket and 6-pin plug connector for controllers up to and including type D
- Connecting cable 2 with 3-pin socket and 7-pin plug connector for controllers from type E
- Switch cabinet cable with bare wire ends for compact controllers with 0/2 – 10 V DC control signal are available from manufactures as item 4 424 0125 0

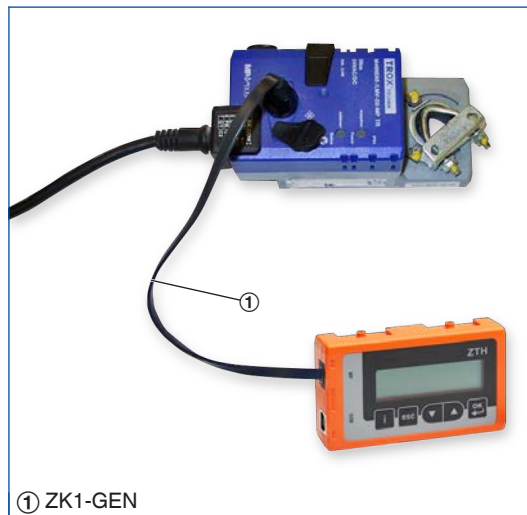
Installation and commissioning

- Recommendation: signal cable for connection of the adjustment devices in an easily accessible location; when service is needed, no covers need to be opened
- Suitable locations include: switch cabinet, floor distributor or spare terminal in room temperature controller
- Ensure that the mass (and possibly 24 V) is also available

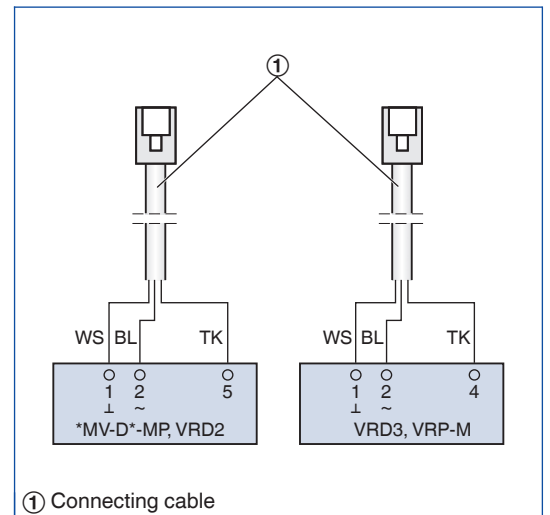
Wire connection to an additional service terminal in the switch cabinet



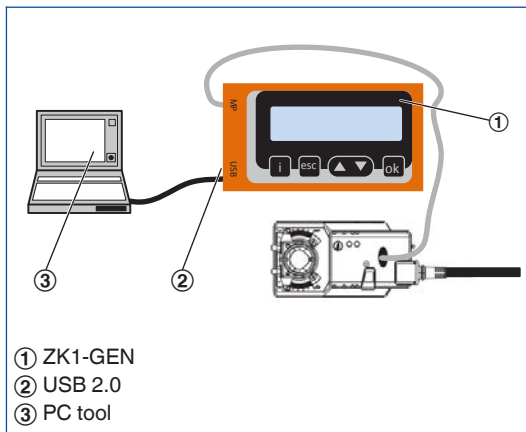
Plug connection to the controller



Connection to the terminals of the controller or to terminals in the switch cabinet



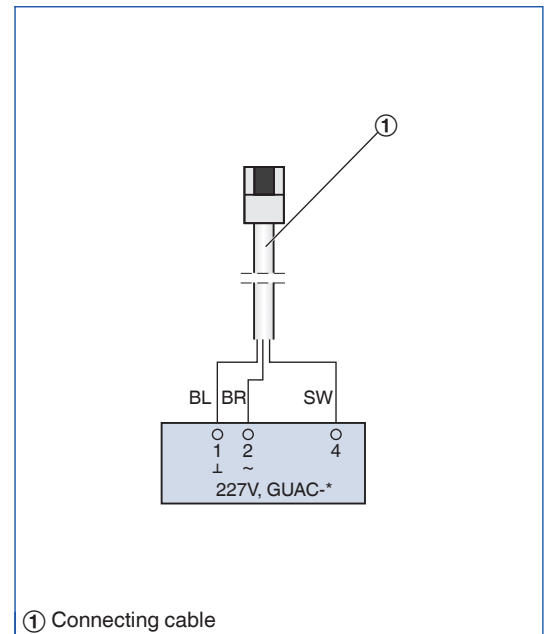
Connection to the PC tool



Plug connection to the controller



Connection to the terminals of the controller or to terminals in the switch cabinet



Plug connection to the controller

