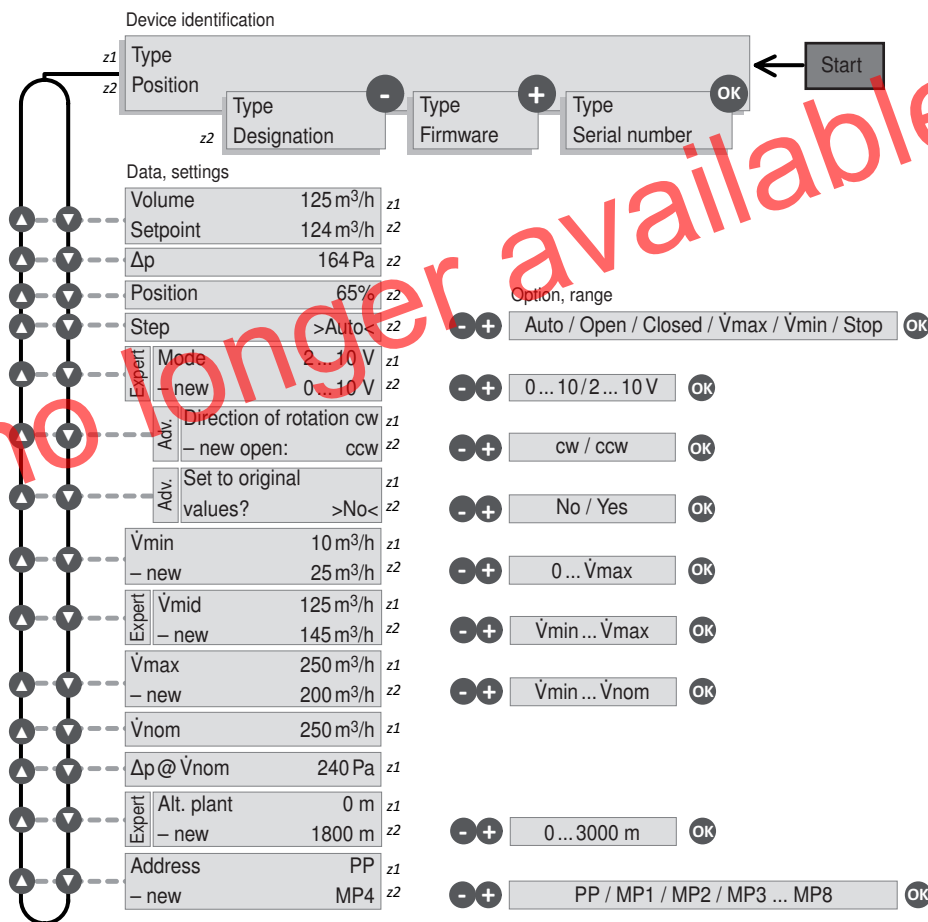


Functions for VAV product range

Menu tree The following menu tree corresponds to that of the new VAV-Compact D3 generation: L/N/SMV-D3-MP, LHV-D3-MP, L/ NMV-D3LON



Products no longer available

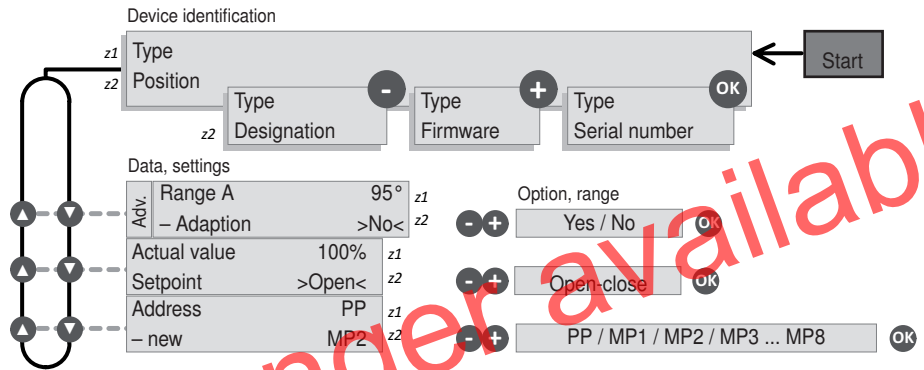
Deviations	VRD2 (1992-2007)	Display actual value/setpoint in [% \dot{V}_{nom}], \dot{V}_{min} in [% \dot{V}_{max}], \dot{V}_{max} in [% \dot{V}_{nom}]	Read only	PP
	VRD3 (starting 2008)	Display actual value/setpoint in [% \dot{V}_{nom}], \dot{V}_{min} in [% \dot{V}_{nom}], \dot{V}_{max} in [% \dot{V}_{nom}]	HW potentiometer setting «Tool» → Read/write, otherwise → Read only	PP
	VRP-M VAV VRP-M VAV / STP	up to V2.16 \dot{V}_{min} in [% \dot{V}_{max}], \dot{V}_{max} in [% \dot{V}_{nom}] starting with V3.0 \dot{V}_{min} in [% \dot{V}_{nom}], \dot{V}_{max} in [% \dot{V}_{nom}]		PP / MP1...8
	NMV-D2 (1992 – 2000) NMV-D2M (2000 – 2006) Altitude compensation	Display actual value/setpoint in [% \dot{V}_{nom}], \dot{V}_{min} in [% \dot{V}_{max}], \dot{V}_{max} in [% \dot{V}_{nom}] This function requires VAV-Compact D3 with firmware V2.06 (03/2013) or higher and ZTH-GEN with firmware V4.50 or higher		PP PP / MP1...8

Information: VAV-Universal actuators

The V-actuators L/N/SM24A-V, L/NMQ24A-SRV-ST, which fit the VAV universal controllers VR..., have a tool connection but are nevertheless not tool-capable!

Functions for BF-TopLine fire protection actuators

Menu tree The following menu tree shows the adjustment/display possibilities of a BF-TopLine.



Checking the power supply

Checking the power supply

The ZTH-GEN offers the possibility of checking the AC 24V power supply (III safety extra-low voltage) of the Belimo devices. Voltages >30V are not permitted!
Application e.g. Commissioning, troubleshooting in the event of a malfunction.

Measurement procedure

Equipment: ZTH-GEN, ZK2-GEN

Connection: – connect free wires of the ZK2-GEN to AC 24V.

- white on GND (connection 1 actuator/VAV controller)
- blue on ~ (connection 2 actuator/VAV controller)
- third wire (turquoise) do not connect

– Do not connect RJ11 plug to ZTH-GEN yet!

- Start:
- Press the ZTH-GEN key (OK) while at the same time connecting the RJ12 plug
 - Select Supply function with arrow key (▼)

End: Disconnect ZTH-GEN RJ12 plug or end Configuration function (OK)

Display

Supply	okay
AC 24V	VHW: 88%

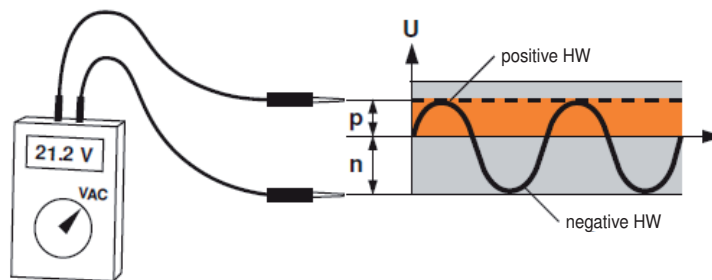
Quality: okay: AC supply in the division 19.2 ... 28.8V

AC value: measured AC voltage (accuracy ±1.0V insofar as VHW >95%)

VHW: Relationship of positive to negative half-wave

The deviation of the positive half-wave value to the value of the negative half-wave may not be too large. As a rule: positive HW / negative HW x 100 should be >80%.

Explanation VHW



Possible problems

The following items influence the half-wave load:

- Transformer too small in its dimensions
- long signal cable length from transformer to VAV controller