

VAV Compact D3 – Comparison of function

Function	VAV Compact D3	VAV Compact D2
Application	Pressure-independent control of CAV/VAV units in the comfort zone	
Control function	VAV and CAV units	
Control characteristics	PI control	
Sensor	Integrated dynamic differential pressure sensor	
-Sensor type	D3 sensor, calorimeter	D2 sensor, thermo-anemometer
-Measurement range	~0.5...600Pa	2...300Pa
-Warm-up time of sensor element	~10s	> 15min
-Pressure display	ZTH-GEN / PC-Tool	None
-Adjustment to V'nom parameter	$\Delta p @ V'nom$ [Pa] / V'nom [m ³ /h / l/s / cfm]	Calibration value [1500...7000] V'nom [m ³ /h / l/s / cfm]
VAV / CAV control signal	V'min...V'max	
-VAV: Mode 0...10V	V'min...V'max	
Mode 2...10V	0V = closed / V'min...V'max	0V = closed / V'min...V'max
Shut-off level (2...10V)	0.1 (default) / 0.5V selectable	0.1V fixed
-CAV: Input w (3)	CLOSED / V'min / V'max / OPEN V'mid fixed 50%	CLOSED / V'min / V'max / OPEN V'mid adjustable
-U5 feedback signal	0...100% of V flow / damper position / Δp	0...100% of V flow / damper position
Operating volumetric flow	0...100% V'max	
-V'min range	0...100% V'max	
-V'max range	20...100% V'nom	30...100% V'nom
Adjustment tools	"same" as Compact D2 (no Δp display)	
-ZTH-VAV	V1.x full support	
-ZTH-GEN (starting V4.xx)	full support	
-PC-Tools	full support starting V3.6	full support starting V3.1
Wiring connection	"same" as Compact D2	
Accuracy	Δp -20...+20Pa → +/-1Pa Δp +20...500Pa → +/-5%	~+/-10% (approx.)
Dimensions	"same" as Compact D2	
	full support	

- Please keep in mind: **Compact D3 works ONLY together with PC-Tool V3.6**
- Also a new manufacturing code (OEM-code) is needed. To receive a new code for your OEM, please get in contact with our LRD PM or AP PM.

