

CONTROL THAT ADAPTS TO REAL AIRFLOW

Compact VAV Controller For Precise Airflow Control

Pressure and Volumetric Flow Control
for VAV Terminal Units



- **Integrated VAV control concept**
One unit replaces three components: differential pressure sensor, controller, and damper actuator — factory-calibrated and OEM-ready
- **Proven control accuracy**
Closed-loop volumetric or pressure control with $\pm 5\%$ synchronised speed tolerance. Silent as <35 dB(A) at standard running time
- **Compact Integration — Flexible mounting**
Position-independent mounting. Universal shaft clamp fits $\varnothing 20$ mm or form-fit 8/10/12 mm — compatible with existing damper hardware
- **Built for the long term**
>100 000 full-stroke cycles. Maintenance-free. That is typically 20+ years of daily operation without a service call

Application: VAV terminal units · Commercial HVAC zones · Air distribution systems

327 VAV Compact — product range

Controls	Analogue, Modbus RTU, BACnet MS/TP
Torque options	8 / 16 N·m
Sensor — dynamic	500 / 1 500 Pa
Sensor — static	400 / 600 / 1 000 Pa
Running time (8 N·m)	100 s / 90° adj.
Running time (16 N·m)	150 s / 90° adj.
Sound level	<35 dB(A)
Service life	>100 000 cycles
Supply voltage	24 V AC/DC

WHY ENGINEERS SPECIFY THIS VAV

- Closed-loop airflow control — no external sensor, no additional wiring
- BTL-listed BACnet B-ASC profile — no interoperability surprises
- Hybrid mode: analogue and bus run in parallel — ideal for retrofit
- Full diagnostic menu on-unit: open, close, min, max, adapt
- Master/Slave wiring supported for supply/extract tracking
- Adjustable running time, direction, and end-stop — full flexibility



Learn more

ENGINEERED FOR STABLE AIRFLOW CONTROL
— IN OEM PRODUCTION AND HVAC PROJECTS

CONTROL STARTS IN THE ROOM

Room Unit for Precise VAV Temperature Control

Room-based Control for Variable Air Volume Systems



ANALOGUE

CRW1-T-VAV01

Standalone analogue room controller. Direct 0–10 V output to the 327 VAV Compact — no bus, no complexity.

Output	0–10 V
Communication	Analogue only
Power supply	24 V AC/DC
Accuracy	±0.5 °C
Resolution	0.1 °C
Economy setpoints (C / H)	26 °C / 16 °C

Best for: standalone zones

MODBUS RTU | BACnet MS/TP

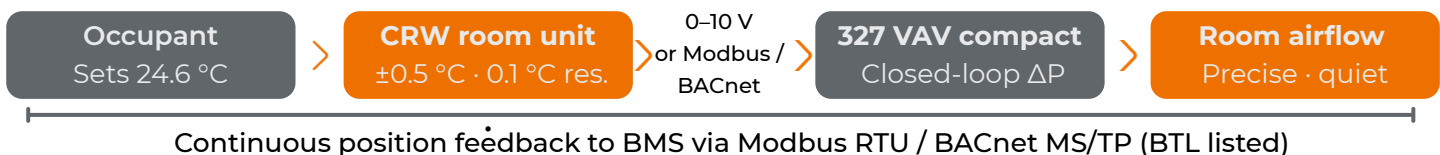
CRW9-T-VAV01 | CRW9-T-VAV10

BMS-integrated room controller. Full Modbus RTU or BACnet MS/TP access to PID parameters — commission remotely, not at the wall.

Output	0(2)–10 V + Modbus/BACnet
Communication	Modbus RTU (RS-485) BACnet MS/TP
Power supply	24 V AC/DC
Accuracy	±0.5 °C
Control settings	via Modbus / BACnet
Addresses	1–254 selectable

Best for: networked BMS

COMPLETE AIRSIDE CONTROL — ROOM DEMAND TO AIRFLOW



WHY SYSTEM DESIGNERS SPECIFY THIS SOLUTION

- Defined control logic from room demand to damper position — no intermediate controller needed
- Reduced wiring — room unit connects directly to VAV Compact, 3-wire or RS-485
- CRW9 exposes full PID tuning via Modbus — commission from the BMS, not the wall
- Same hardware, different config — suitable standalone or fully networked



Learn more