

- 1 D+H Mechatronic (english)**
- 1.1 VCD Series - ACB Drives**
- 1.1.1 ACB chain drive - VCD-0204-1-ACB - freely configurable**

24 V DC / Special production according to customer requirements

Electromotive drive unit with Modbus RTU interface for surfaced mounting at the window profile. Symmetrical construction with centered chain outlet. For the comfortable electromotive opening and closing of bottom hung-, top hung-, parallel opening-, and trapezoidal windows in the facade, as well as for roof windows. Useable for daily ventilation mode. Compatible to D+H locking drives.

Performance features:

Integrated Advanced Communication Bus (ACB) with open Modbus RTU protocol;
High-precise motor- and synchron electronic for parallel run for up to 8 drives;
Connection of up to 4 locking drives;
Corrosion protected, hardened, rigid backing steel chain, maintenance free by lifetime lubrication;
Special chain stabilization;
Active and passive locking edge protection;
Various adjustable drive parameters (stroke, force, speed);
Gasket protection thanks to the automatic relief of pressure on window gasket after a closing process;
Easy installation thanks to polarity reversal protection connector system;
Individual parameterizing via D+H software SCS;
Low operation noises;

Functional description ACB

Direct integration of drive by open Modbus RTU bus-communication via Advanced Communication Bus (ACB) for the building automation, e.g. in BMS (building management system) with following features:

- Exact position operating (relative values, in 1% steps)
- Creation of virtual groups at one output
- OPEN and CLOSED-indication (incl. locking drive)/ group signal
- Monitoring of connected drives
- Status monitoring of motor
- Diagnostic and parameterizing directly via controller
- Modbus protocol "ACB planning manual" as download link on D+H's website
- Max. 32 ACB-bus-participants at Modbus RTU

Technical data:

Operating voltage: 24 V DC / ± 20 %
Current consumption: 0.35 A
Duty cycle: 30 % (ON: 3 min. / OFF: 7 min.)
Shutdown: Integrated electronic load cut-off
Configuration: **Main or Sub**
Design: Symmetric
Force of pressure: 200 N
Tensile force: 200 N
Nominal locking force **: 2000 N
Service life: 20000 double strokes *
Stroke length: **250 mm / 350 mm**
OPEN running speed: 6 mm/s
CLOSED running speed: 6 mm/s (according to protection class 3, Machinery Directive 2006/42/EG)
Type of protection: IP 30
Emission sound pressure level: $L_pA \leq 46$ dB(A)

Temperature range: 0 °C till +60 °C

Opening mechanic: Maintenance-free, corrosion protected hardened push linked chain with lifetime lubrication

Housing: two-part, die-cast zinc

Surface: **on request**

Colour: **on request**

Connection: PVC-cable

Dimensions (WxHxD): 480 x 30 x 47 mm

* For vertical use, please consult with D+H Sales!

** Depending on the mounting

Scope of supply:

Drive unit with PVC connection cable with system plug, instruction for use

Brand: D+H Mechatronic AG

Type: VCD-0204-1-ACB

The D+H partner on site is at your disposal for design variants.

[Planning Support](#)

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Quantity: Stk **Preis:** € **TP:** €