

- 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 /  $\pm 20$  %  
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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