

Access control
System components

DORMA



**CODIC
CARD**

Systematic security

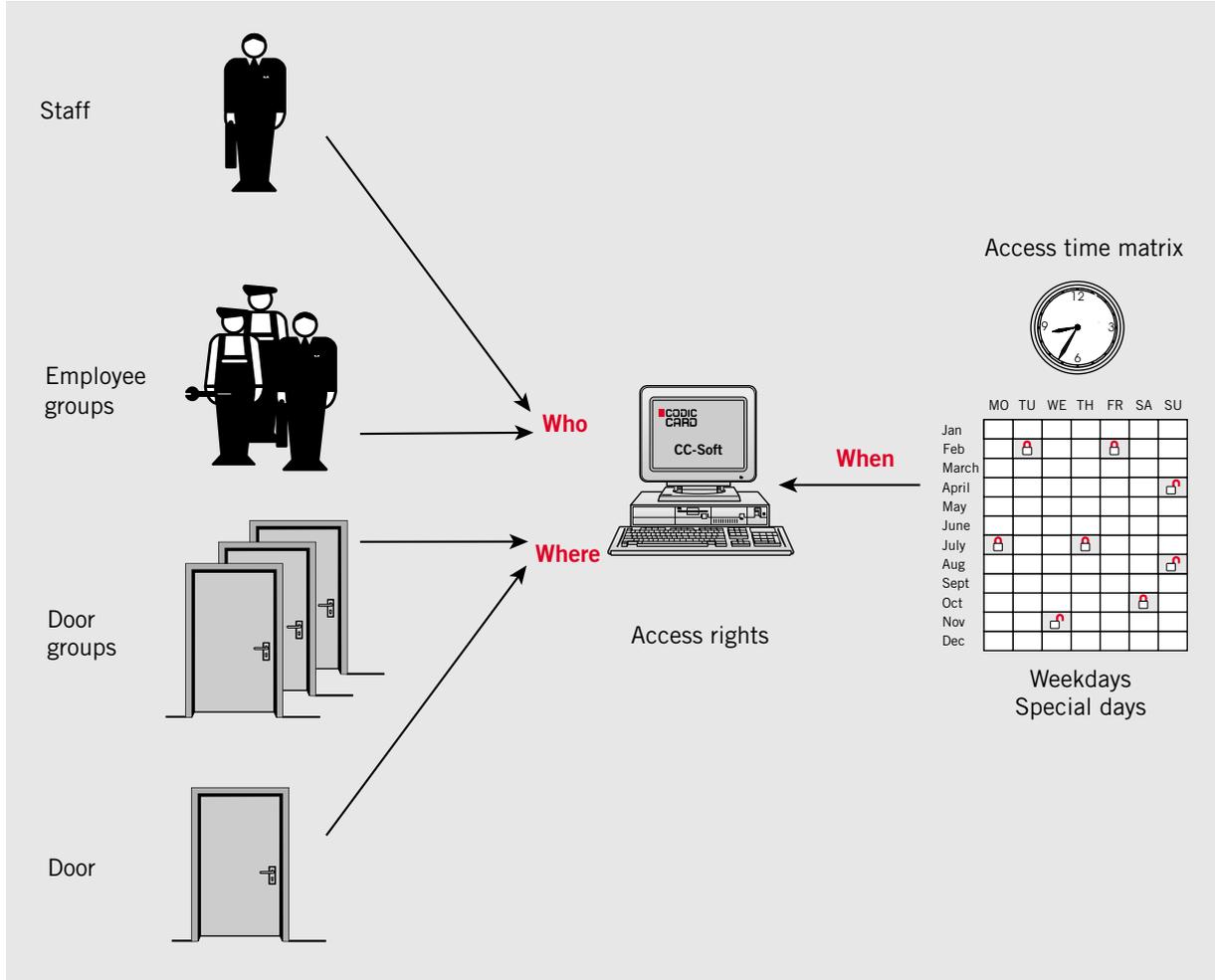
An access control system has to satisfy particularly high demands in the case of large building complexes managed on the basis of an integrated network. With the CODIC system from DORMA, up to 31 evaluation and control units can be inter-linked without problem. This means that up to 124 doors and readers can be integrated within a single system. Data management and coordination can be efficiently performed with just one control centre computer even in a network comprising several kilometres of cabling. The CODIC CARD access control system also offers versatility in the selection of the

devices actuated. It can be configured, for example, for direct operation of electric strikes, high-security PROSIS jamb-concealed locks, DORMA SVP emergency escape locks with automatic locking action and even the entire DORMA emergency exit control system. Both authorised personnel and also the doors assigned to them can be divided into groups. This simplifies handling in cases where the identity cards merely need to allow equal-authority access to the same localities. The CC-Soft software used in the system also ensures easy and efficient administration of the access rights.

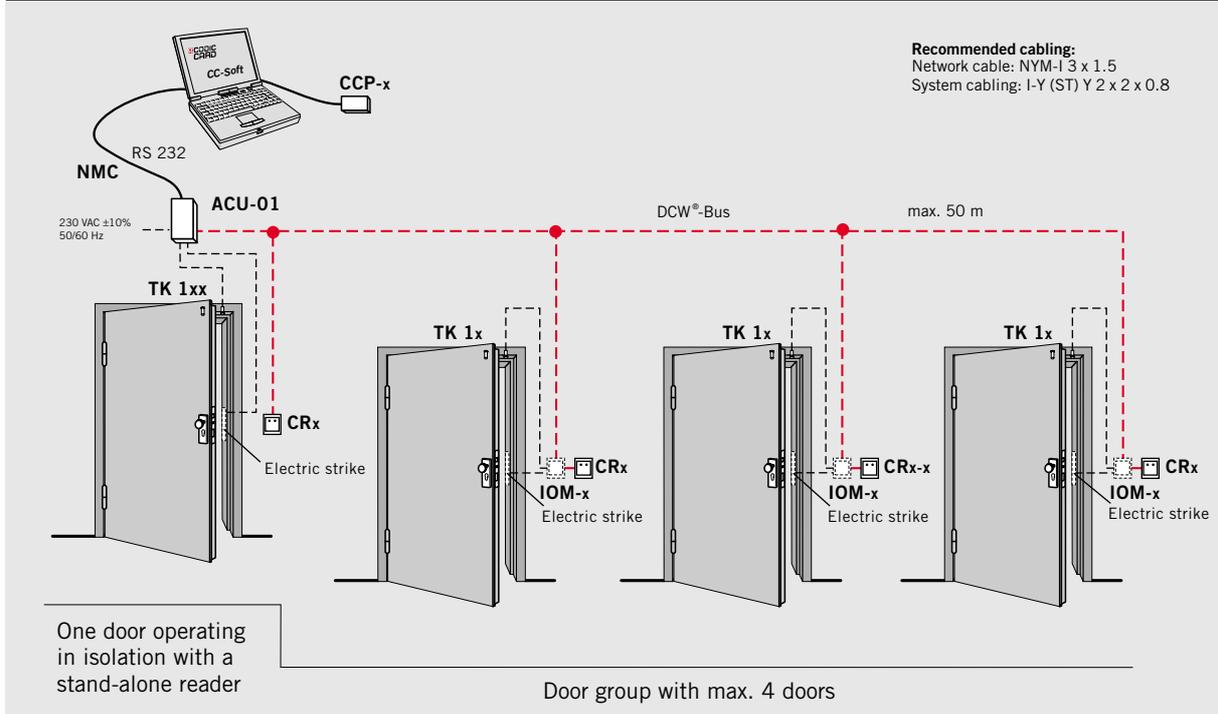
Benefits

- Modular components and software tools.
- Savings in time and cost with installation using modern bus technology.
- Choice between stand-alone operation and networked system.
- Suitable for integration with emergency exit control systems.
- User-friendly software for convenient administration of access rights.

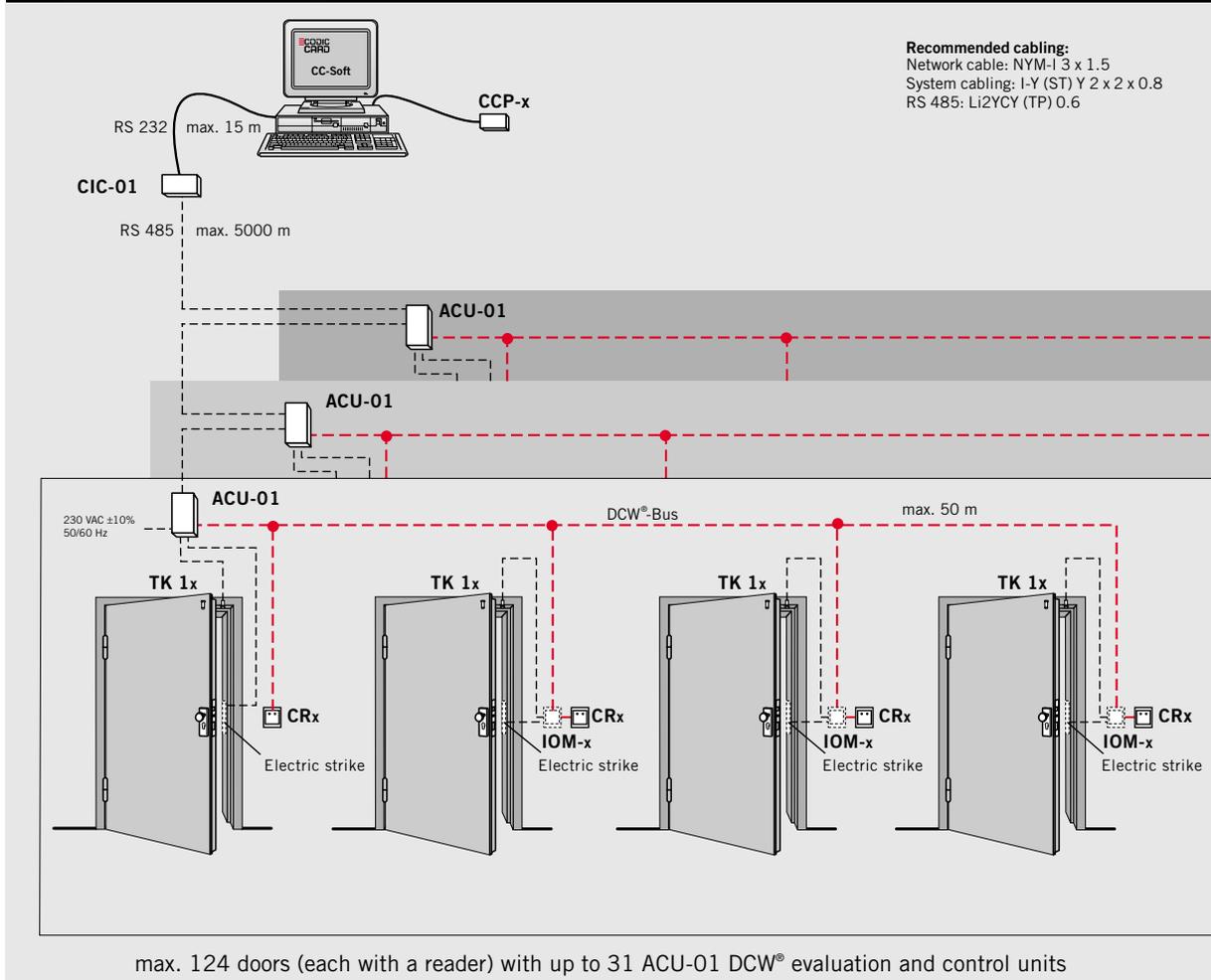
Access rights



Configuration and data exchange via laptop (offline)



Configuration and data exchange via PC (online)



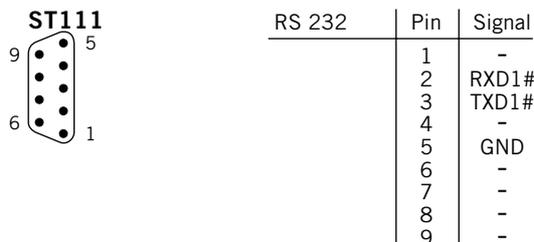
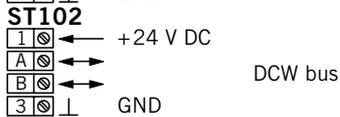
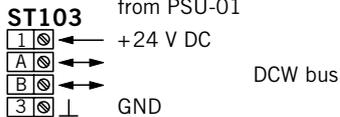
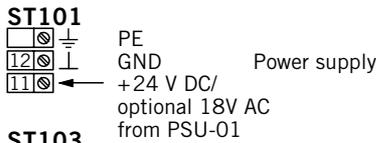
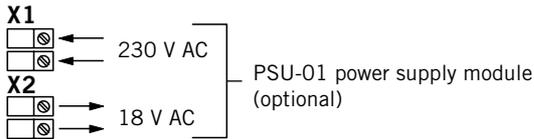
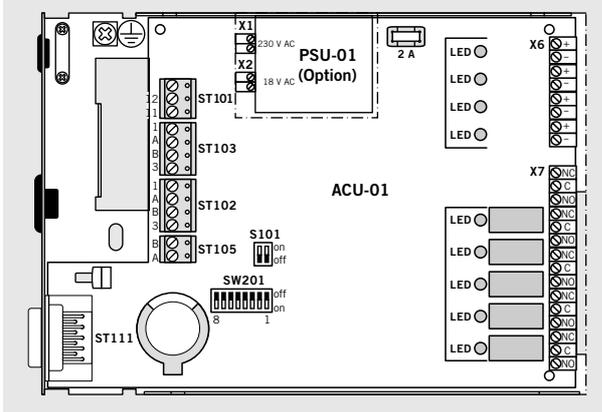
The ACU-01 DCW[®] evaluation and control unit serves as the central processing device in the CODIC CARD access control system. It communicates via the DCW[®] bus with the ID readers and I/O modules of the system.

It also administers the access authorisation data and enables data interchange with the PC.

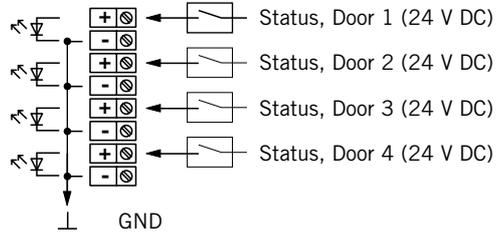
Technical data

Power supply:	Via power supply module PSU-01; alternatives: 16–36 V DC / 16–24 V AC
Current input:	max. 240 mA
Operating temperature:	– 20 °C to + 45 °C
Class of protection:	IP 20
Optocoupler inputs:	24 V DC, 20 mA
Relay outputs:	max. 60 VA max. 45 V DC / 35 V AC max. 2 A
Anti-tamper contact:	Fork-type photoelectric switch

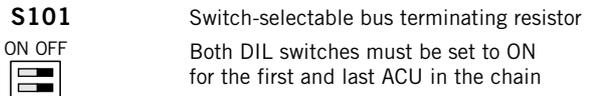
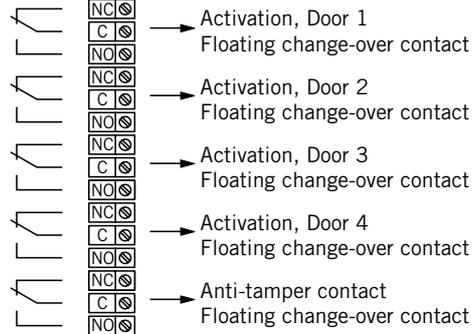
ACU-01 DCW[®] evaluation and control unit: Terminal assignment and functions



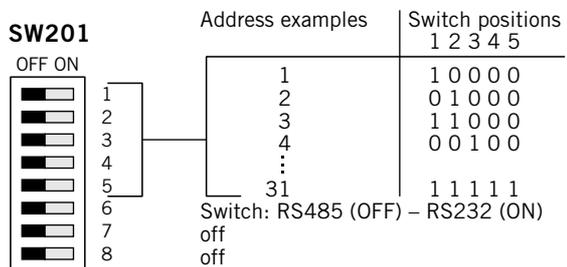
X6 Optocoupler inputs



X7 Relay outputs



ACU addressing scheme



Specification text

CODIC CARD ACU-01 DCW® Evaluation and Control Unit
 ACU-01 DCW® evaluation and control unit for connection of up to four CRx-xxx DCW® readers and up to three IOM-xxx DCW® I/O modules. Networked via the DORMA DCW® bus system. For storage and evaluation of up to 5,000 individual erasable access rights in 20 door-specific and/or personnel-specific time matrices. Logging of max. 5,000 authorised access events. Integrated lithium back-up battery ensures data security in the event of a power failure. Control system includes four optocoupler inputs for transmission of external signals and control commands (floating or non-floating) and five floating outputs for actuation of external components – such as DORMA SVP emergency escape locks with automatic locking action, PROSIS high-security jamb-concealed locks, electric strikes and motor locks, and/or for outputting signals. Anti-tamper contact for monitoring unauthorised attempts to open the housing. Parameterisation/programming performed using the CODIC CARD CC-SOFT software package running on a WINDOWS platform: Windows 98/NT4 Servicepack 6 or Windows 2000.

With max. 31 ACU-01 DCW® evaluation and control units, a network can be created containing up to 124 readers. For data communications with the evaluation units, the RS232 interface is provided for the stand-alone mode, and the RS485 interface is provided for network operations. The maximum cable length in the network mode is 5,000 m.

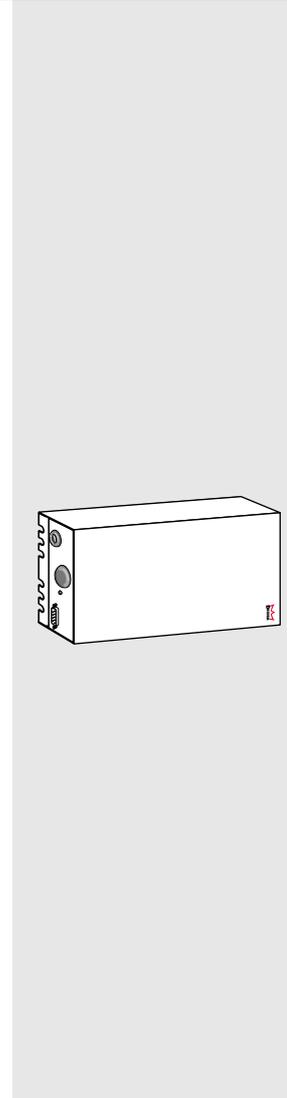
Power supply by others: 24 VDC ± 10 %
 Option: 230 V AC ± 10%, 50/60 Hz with PSU-01 power supply module.

Current input: max. 240 mA
 Optocoupler inputs: 24 V DC, 20 mA
 Relay outputs: max. 60 VA
 max. 45 V DC/35 V AC
 max. 2 A

Sheet steel housing (painted white, sim. to RAL 9010) for surface fixing
 Dimensions (W x H x D): 146 x 244 x 59 mm
 Class of protection: IP 20

Order No. 

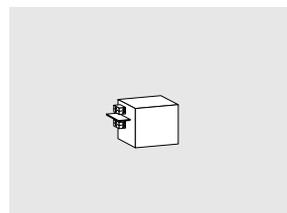
19350001  ACU-01DCW®



CODIC CARD PSU-01 Power Supply Module
 Power supply pcb for supplying one ACU-01 DCW®, four CRH-xxx DCW® readers and three IOM-xxx DCW® I/O modules. Prepared for simple installation in the housing of the ACU-01 DCW® evaluation and control unit.

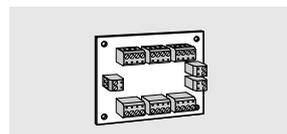
Power supply: 230 V AC ± 10 % 50/60 Hz
 Power consumption: 24 VA
 Dimensions (W x H x D): 90 x 60 x 35 mm

19350002  PSU-01



DORMA DCW® Bus Hub
 DORMA DCW® bus hub with six ports as distribution board/branching module for DORMA DCW® bus devices; for installation in DCW® hub box or enclosure by others.

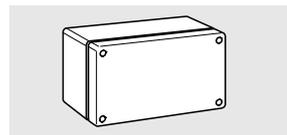
56352100  DCW® bus hub



DORMA DCW® Hub Box
 DORMA DCW® hub box for installation of up to four DCW® bus hubs; surface-fixed.

Degree of protection: IP 54
 Dimensions (W x H x D): 200 x 120 x 75 mm

56352000  DCW® hub box



Specification text

CODIC CARD Software CC-SOFT

Access control software for running on a Windows platform as a stand-alone version.

For configuration and administration of users, doors and time zones of CODIC CARD readers. For managing up to 5,000 access rights assigned to 124 readers via 31 evaluation and control units in 20 time zones. Indication of data transfer requirement in relation to modified data for the individual access controls. Integral wizard for user prompting.

The audit trail (events history) data of the ID cards known to the system can be read out as required. Access attempts with non-system HITAG cards/transponders are likewise logged.

Various rights can be managed on a password-secure basis. Additional functions can be generated with the optional software expansion modules:

- Layout plan upgrade: Integration of active links in user-specific layout diagrams (up to 20 levels) enables direct management of the door data.
- Report upgrade: This program module facilitates user documentation of access rights, doors and specific groupings. Also enables events history documentation provided that the audit trail upgrade has been implemented.

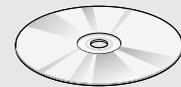
System requirements:

IBM-compatible PC (Pentium, 200 MHz or better); operating system: Windows 98/NT4 Servicepack 6 or Windows 2000; CD-ROM drive; 32 MB RAM; 60 MB free hard disk storage space plus capacity for data logging.

Two free COM interfaces (V24 standard).

Order No. 

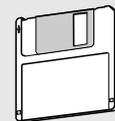
1965001  CC-Soft



CODIC CARD Software Upgrade CLU-01, Layout

Software upgrade for expanding the CC-SOFT basic software to enable the upload of up to 20 layouts of a building in BMP or JPG format. In order to facilitate management, erasable links to the door data can be incorporated directly into the layout in order to enable the functions such as group management, door-open alarm or set/modify energise time.

1965021  CLU-01

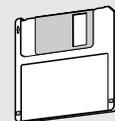


CODIC CARD Software Upgrade CRU-01, Report

Software upgrade for expanding the CC-SOFT basic software to enable convenient documentation of the system-relevant data pertaining to users, doors, their groups and time matrices.

Also facilitates efficient documentation of usage/events history in combination with the Audit Trail software upgrade.

1965031  CRU-01



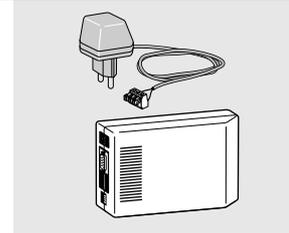
Specification text

CODIC CARD Interface Controller CIC-01

Processor-controlled RS 485/RS 232 interface converter for networking the CODIC CARD ACU/01 DCW® evaluation and control units in the online mode via the serial interface (V24 standard) of the PC.

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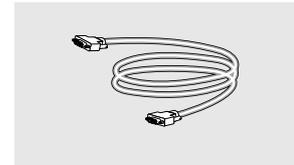
19493201  CIC-01



CODIC CARD Null Modem Cable NMC

For data interchange between the CODIC CARD ACU-01 DCW® evaluation and control unit or CODIC CARD CIC-01 interface controller with the serial interface (V24 standard) of the PC.

19491720  NMC



Abbreviations / Nomenclature

ACU-01 DCW®	A ccess C ontrol U nit
CCx-0x	C ODIC- C ARD
CCP-x01	C ODIC- C ARD P rogrammer
CC-SOFT	C ODIC- C ARD S OFTware
CHU-01	C ODIC H istory U pgade
CIC-01	C ODIC I nterface C ontroller
CLU-01	C ODIC L ay-out U pgade
CRx DCW®	C ard R eader
CRU-01	C ODIC R eport U pgade
CTx-03	C ODIC T ransponder T ag
DCW®	D ORMA C ONNECT AND W ORK
IOM-x DCW®	I nterface/ O utput M odule
NMC	N ull M odem C rosscable
PSU-01	P ower S upply U nit
RFSx	R eader F ittings S et
ROS-x	R eader O utdoor S et

x = Variants

Note:

For further information, consult the CODIC CARD Design Components brochure

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