

Access 8 CD 2.0

Basic, Slim, Quattro,
Desktop



Product features and benefits

- Durable and reliable access control reader armed with highest level Mifare® DESFire security
- Extremely low power consumption – up to 60 % more energy-efficient
- Eco-sensitive construction
- Profoundly convenient configurations - no uninstalling or power-down required!
- Powerful, unique and customisable security features you choose and program yourself
- Open technology: no more proprietary limit on who you buy cards, controllers from, no device supplier of technology dependencies
- Compatibility with your current Mifare® card population
- Robust, reliable, flexible and utterly secure standalone capability
- Easy and convenient technology and security level migrations

Access 8 CD 2.0 is a highly configurable, secure Mifare® technology reader. With sector reading capabilities, it is suitable for multi-applications. This flexible reader is actually many readers inside one - it can be upgraded into another technology or into another security level later on. You don't even need to uninstall the reader for configuration. All configurations from technology migrations to security key and bit length changes can be made only by exposing it to a secure, authorized configuration card. You can create configuration cards and transponders by a user-friendly Idesco DESCoder tool. This powerful reader is convenient and easy to deploy since it supports all Mifare® transponders. Connect it to your existing Mifare® system and it will flawlessly read the Mifare® cards you already have deployed. Access 8 CD 2.0 has also standalone capability which means that it can be deployed to control (e.g. electric locks) independently, according to the access rights programmed on a transponder.

This flexible reader with new generation access control features and capabilities is available with several housing options.

Technical specifications

Operating frequency	13,56 MHz
Voltage	24VDC (+5VDC +30VDC) with cable length longer than 100 meters (+10... +30 VDC)
Current consumption	20 mA @ 24 VDC, max 60mA
RFID chip support	MIFARE® DESFire: UID + Application files , MIFARE® Classic: UID + Sectors, MIFARE® Ultralight UID, MIFARE® Plus UID, MIFARE® SmartMX (MIFARE® Classic emulation mode), NFC (UID), Mifare Classic 7 Byte UID + sectors
Dimensions of housing (hxwx d)	Basic: 110 x 43 x 24 mm Slim: 141 x 43 x 19 mm Quattro: 85 x 85 x 24 mm Desktop: 95 x 62 x 24 mm
Material of housing	Plastic
Installation method	Quattro: To a standard electrical socket with screws
Colour	Black
Customized versions	Yes, with sticker
Protection class	IP67, with the pigtail cable option IP54, with the connector option
Operational temperature range	-40C - +55 C
Storage temperature range	-40C - +55 C
I/O's	2 FET outputs 1 General purpose input
RS-232	Yes
Wiegand	Yes
RS-485	Idesco RS-485, Idesco RS-485 with AES, OSDP
USB	Yes
USBH1	On request
Clock & data	10 BCD format for Mifare Classic sectors and for Mifare Desfire application
EMC	Meets CE requirements
Field strength	According to EN300330
Encryption	AES or triple DES
Cable	LIYY 3m, delivered only with pigtail reader
Connector option	Basic, Slim & Quattro (pigtail as a default)
Led	Tricolor (LED modes can also be configured)
Led control	By wire
Buzzer	Yes (Buzzer modes can also be configured)
Buzzer control	By wire
Optical Tamper	Yes, configurable
Alive message	Options for 4-bit, 6-bit, 8-bit and 38-bit message
Re-read delay	Adjustable
Configuration	Only one DESfire EV 1 conf card required Configure only after reset option
Value file support	The reader can be set to credit / debit value from value file cards



Eco 20 is a new generation of Idesco products. Eco 20 stands for less power consumption, improved connectivity with other products and smaller carbon footprint through sustainable manufacturing materials and methods. www.idesco.fi/eco20