

ACS-Cylinder®

Remote controlled cylinder

ACS-Cylinder® is a long-range radio device with its original design that makes it ideal for centralized and secured access control. Equipped with a Clover-Sense® innovative LoRa module, it allows configuration, historical reports and remote control.

Managed via the "Dialog 900" UNITECNIC' solution, or directly integrated in your own solution, it insures long range access management over buildings thanks to Clover-Net, while keeping the benefit of being opened by proximity badges.

It really ease access control system deployment by replacing the existing cylinder with commissioning facilities.

Device life time and maintenance operations are facilitated thanks to anticipated signal of batteries wear and other principles like progressive delay at the opening.

Easy to install

ACS-Cylinder® remove and replace philosophy allows any existing door to become smart. Available in any cylinder length, a part of or a complete building is easily changed to a centralized remote access control with a minimum of operations, with no need of power line.

Designed to be hostile environment proof, IP55 protect insures all operation cases while anti-tamper, anti-drilling and anti-twist technologies make this device Ready-to-Use in any case.

Advanced features

More than a simple door lock, it adds advanced services and features like number of passages reports, real-time remote access control, intrusion detection, remote authorization dispatching, free opening programmable timeslots, access profiles and more.

This communicating device is compatible with INS-Gate®, either through UNITECNIC solution or a complete custom management.



Multiple communications

The ACS-Cylinder® supports near field Tag (MIFARE/DESFIRE 13.56MHz), but also takes benefit of long range Clover-Net protocol based on LoRa technology. This unique integration gives an unprecedented flexibility with standard smart lock control and remote access for on-demand management and reporting.

Turn-key solution

Developed by UNITECNIC, the DIALOG 900 software allows you to manage your equipment with serenity: timetables, access profiles, user badges, holidays and management of the equipment park are the main functions of this indispensable tool to the security of your premises.

Custom system integration

For complete and fast integration in a custom solution, a PDK is available to make this smart lock communicate with your system.

Main features

- Passage report
- Remote access control
- Intrusion detection
- Remote Authorization dispatching
- Free opening programmable time slot
- High level of integration
- AES encryption security
- Private networks
- No power line connection
- Easy installation without mechanical doors adaptation



Electronical characteristics

- RFID - MIFARE/DESFire 13.56 MHz Technology
- Clover-Net RF long range 100m (constrained industrial indoor)
- Power: battery CR123A 3V (lifetime: 50,000 openings)
- Authorized access up to 2800 IDs
- Event memory: 1,000 events
- Battery wear indication
- Operating temperature -25°C to +70°C
- Anti-tamper: electronic/motor pairing



Mecanical characteristics

- Stainless steel
- Satin Nickel finish
- Modularity of cylinders length for a single reference in stock and fast adaptation.
- Cylinder length: 30/30 to 60/60 (120mm max.)
- IP55 protection
- Indoor/Outdoor use
- Security Protections: Anti-twist, Anti-drilling, Anti-tamper

Order references

Order #	Description
ACS-CYL-ST-X8X-001	ACS Cylinder® standard version

Others on demand



Clover-Net generic features

- Transmission range up to 5,000m line of sight, up 500m indoor.
- Real-time 2-way communications: Scheduled transmission, automatic alarms and on-demand reading.
- Robust against physical and electronic interferences.
- Fast event reactivity, huge coexistence ability.
- Low cost for mass deployment
- Auto RTC propagation
- Native triband compatibility (433, 868 and 915Mhz)
- CE & EN 300-220 & FCC 15-247 compliant
- LoRaWAN compatible
- Uses Multi-channel frequencies to avoid collision.
- Dedicated alarm frequency channel.
- Data Encryption by AES 128 with dynamic key mixt
- Includes Full networks services (Broadcast, Repeater, Mesh, ...)