

RFID SYSTEM FOR ACCESS CONTROL

SINTESY.eagle.S180 represents SYNTESY's solution for the access control. It can be used as a stand-alone device or as a part of a wider system made of RTUs which are designed and manufactured by SINTESY.

S180 is able to manage up to 4 RFID readers, named SINTESY.eagle.S182. This way it is possible to control 2 or 4 different doors, controlling both entrance and exit. S182 readers can also be installed several meters far from S180.

S180 is equipped with 4 programmable outputs with relays (with NC or NO contacts) and 4 programmable digital inputs. Moreover, it has an RS485 communication port, so that it can be integrated to the SINTESY.eagle® system, and a USB port to allow the programming procedures using a PC.

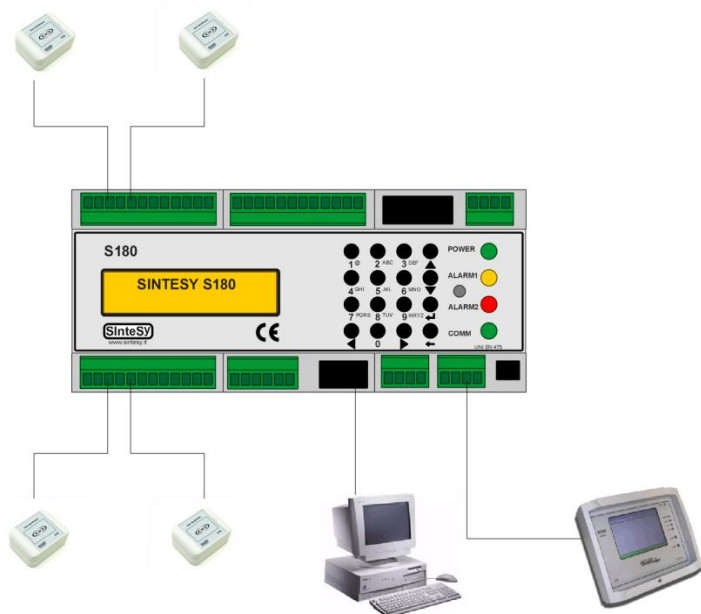
SINTESY.eagle.S182 uses the RFID technology with a main frequency of 125kHz. Proximity cards (badges) are provided with a read-only transponder with a unique code; they are provided by SINTESY, named S184. The cards can be customized with logo or pictures according to the Customer's requirements.

The access control system developed by SINTESY allows to set a different profile for each card, in order to control the access to sensitive areas where only authorized staff should get inside and outside. It is also possible to set the opening time of each door with electrical locks and to monitor the contact status (open / closed door).

S180 can be programmed using its LCD display and keyboard; otherwise, to fully program the module, it is necessary to use a PC and an ad hoc software.

Readers S182 can be wall mounted using a smart light gray colored plastic box. Other special enclosure options are available, such as the 503 enclosure type.

S180 and S182 are usually installed inside a cryobank / biobank or biological laboratory which is managed by S300.smartPLC. Otherwise, access control functions to restricted areas of medical gas systems supervised by a PC can be implemented.



Key features

- Power supply 24V~
- Protection by an internal fuse
- 16 bit microcontroller with a Flash Eeprom
- Memory of the latest 1000 accesses (in case it is managed by the SINTESY.eagle® system, the storage would be on a DBMS – *DataBase Management System* – , that is with no limits about the records number)
- USB interface to program the module
- PC software to program and consult the accesses
- Green Led for power supply and good working
- Green Led for good communication
- N.4 programmable relay outputs with NC and NO contacts
- N.4 programmable digital inputs
- RS485 serial communication interface
- RTU (*Remote Telemetry Unit*) unit for the SINTESY.eagle® system
- Mounting on DIN EN50022 guide according to the standards DIN 43880 (9 modules)
- Transponders with RFID technology @ 125 kHz
- Proximity *read-only* cards with unique code
- Customized cards serigraphy according to specific requests
- Transponder to be placed in recessed 503 boxes (BTicino, Vimar, Gewiss)
- Signaling buzzer (it is activated when a card is passed close to the reader)
- Optional buzzer management
- Bi-colored red / green led (if a valid card is passed it turns from red to green)
- The magnetic reeds S182-4 to control the door status (open/close) are available



SINTESY S.r.l. certified company:
ISO 13485 Medical Device – Quality management systems
ISO 9001 Quality management systems



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