

SIEMENS



Brochure

Edition
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SIMATIC RF1000 RFID system

Access control for machinery and equipment



The growing demand for security and traceability increasingly calls for solutions enabling access to machines and systems which can be regulated and documented.

Electronic access management consolidates process security while enhancing productivity and efficiency by preventing damage which could be caused by unauthorized access.

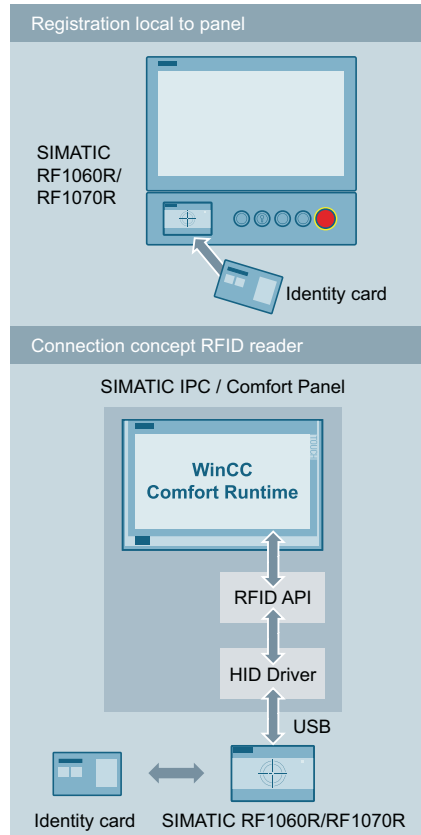
With the SIMATIC RF1060R and RF1070R readers, Siemens provides an RFID-based solution which enables simple and versatile implementation of electronic authorization management. Existing employee ID cards provides the basis for identification, which increases user friendliness and minimizes costs.

Readers of the SIMATIC RF1000R series allows realization of finely-graded access concepts, documentation of processes or storage of user-specific instructions to be stored according to the customer-specific application. And all with one card.

Typical application examples

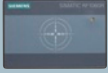


- Controlled machine access
 - Logging of access data
 - Traceability of access and changes
- Individual control of access rights
 - Definition of any number of user groups with different access rights
- Integration in the company-wide industrial security concept

Task
<ul style="list-style-type: none"> ■ Identification of operating personnel at machines and plants <ul style="list-style-type: none"> – Access control – Audit trail
Solution
One-time login with RFID card <ol style="list-style-type: none"> 1. Card is held to the reader 2. UID¹⁾ or customer-specific data segments including handling with access keys are read out once 3. Automatic login
Continuous login with RFID card <ol style="list-style-type: none"> 1. Card is placed in holder 2. UID¹⁾ or customer-specific data segments including handling with access keys are continuously read out 3. Automatic login 4. Card is removed → automatic logout
Login with card and password <ol style="list-style-type: none"> 1. Card is held to the reader 2. UID¹⁾ is read out once 3. User enters password 4. Login



Highlights

- Individual control of access rights using existing employee ID card
- Diagnostics via 3-color LED status display
- Secure and documented access to machines prevents operating errors
- Simple integration into existing hardware (HMI devices, IPCs and panels)
- ATEX II approval
- Integration in TIA Portal
- Reading and writing data on the ID card
- Creation of customer-specific parameterizations of the reader via the config card
- Handling and storage of customized key material in the reader for data access

Ordering data ²⁾		
Device	Article No.	Description
SIMATIC RF1060R 	6GT2831-6AA50	Integrated access control reader with USB connection (1.8 m connecting cable)
SIMATIC RF1070R 	6GT2831-6BA50	Integrated access control reader with USB connection (1.8 m connecting cable) and RS232 interface
Card holder for RF1060R/RF1070R 	6GT2890-OCA00	Molded holder for access IDs in card and token (round) form

Technical specifications

- RFID system in the HF range: Frequency 13.56 MHz
- Standards:
 - ISO 14443 A/B (MIFARE)
 - ISO 15693
 - Legic Prime³⁾
 - Legic Advant3³⁾
- USB Port
- Integration into SCADA systems (WinCC, PCS7)
- Degree of protection: IP65 (frontside)
- Temperature range -25 to +55 °C
- Serial interface RS232 for direct connection to selected communication modules and PCs²⁾

Security information

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. For additional information on industrial security measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>

¹⁾ UID = Unique Identification Number

²⁾ You will find additional accessories at: www.siemens.com/industrymall

³⁾ Only available with SIMATIC RF1070R

Siemens AG
Process Industries and Drives
Process Automation
Postfach 48 48
90026 Nürnberg
Germany

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