942 FingerPROX+/SU

A powerful terminal integrating 1:N Fingerprint Recognition Now with 125KHz EM, HID, LEGIC R&W proximity readers option

Based on the versatile PROX+F platform, FingerPROX+SU is a **Time & Attendance** and **Access Control** terminal widely configurable and programmable. It integrates a fingerprint recognition module for the identification of users.

OVERVIEW

- **Flexible:** possibility of creating several configurations using fingerprint based identification in different types of transactions, offline, online, or semi-online.
- **High security Access Control:** biometric verification is in addition to standard access control validation criterias.
- **Reliable Time & Attendance:**
  - beside pure fingerprint based identification **(1:N mode)**, user's card reading or CODE entry can be used to have ID confirmed by fingerprint recognition **(1:1 verification)**
  - user identity fully guaranteed.
- **Protection of personal data:**
  - no images are stored inside FingerPROX+
  - during the enrollment phase the fingerprints are stored as templates and they are associated with the user's personal code
  - it is then possible to transfer the templates to all other FingerPROX+ terminals
  - all transactions take place in such a way as to protect individual privacy.

Rewritable Cards

- **"Read only" versions:** three models to read the codes of the following proximity cards:
  - 125 KHz EM4102 compatible
  - 125 KHz HID
- **LEGIC® option: The new FingerPROX+ advant version** integrates the new RFID/advant LEGIC® module by TMC. An enhanced FW allows to store and manage fingerprint templates on 13.56MHz proximity cards (prime MIM1024 or **faster** ISO 14443A ATC2048/512 or ISO 15693 ATC1024). Thanks to this option, an **unlimited number** of users per terminal can be managed.

  The FingerPROX LEGIC version supports the set of new commands to freely read and write on the LEGIC card segments. This version enables also the user to carry out automatic procedures for increasing or decreasing the stored values. These commands can work both on-line and off-line (script PROC).

  MIFARE® option: (availability to be confirmed) The special **MIFARE® FingerPROX+ version** uses a MIFARE® ISO 14443A reader/writer module. An enhanced FW allows to store the fingerprint templates in a proximity card (Mifare classic 1K).

AXESS TMC
ZucchettiGroup

AXESS TMC Srl
Via della Filanda 22 • 40133 Bologna, Italy
Tel. +39 051 3519311 • Fax +39 051 3519399
Via Turati, 111 • 20023 Cerro Maggiore (MI), Italy
Tel. +39 0331 423211 • Fax +39 0331 423299
USA Tel. +1 978 688 6401
Email: contact@axesstmc.com
www.axesstmc.com

942 FingerPROX+/SU
AXESS TMC

FUNCTIONALITIES

- The PROX+F based authorization list, together with the integrated fingerprint reader, ensure that **only an authorized person can pass through.**
- Beside identification, FingerPROX+SU can verify user identity by fingerprint recognition **(1:1 verification)** after entering the personal code by card reading or manual typing.
- Possibility of specifying a list of user codes for whom fingerprint is not requested. For each of them, it is possible to specify card reading or manual entering.
- Possibility of specifying a random probability for fingerprint verification request. It can be useful to speed up operations on peek time, when group of users want to clock-in/out, and still the deterrent of true identity is needed.
- All the usual functions of PROX+F are available: **time zone check, programmed access criteria, use of PINs, checking inputs and piloting relays, transactions recording, etc.**, allowing for an access control system with a high ecurity level.
- All the templates are stored inside the fingerprint reader flash memory It is possible to **import and export the fingerprint templates,** without repeating the enrollment process.
- **The user's template can be stored on a MIFARE® or LEGIC® card.** (special versions)
- **Each fingerprint template size can vary,** with about 300 bytes as average.
- Identification time: 1 sec for up to 1000 fingerprints 1:N.
- Supported applications: **up to 4000 users in 1:1 verification mode** with one fingerprint per user.
- It is possible to carry out the on-line verification using a templates database stored on a PC. In this case, the maximum number of users is only limited to the maximum value represented by the number of digits used for the user's code.
- It is possible to **delete** the template associated with a single user's code. The user code can vary from a minimum of 2 to a maximum of 11 digits. If user codes longer than 4 digits are used, a USERCOD codes mapping file is used.
- Most of the **managing functions,** like enrolling new users, deleting old ones, can be performed **from the FingerPROX+ console.**

HARDWARE SPECIFICATIONS

BIOMETRIC READER	• Sensor: CMOS technology, capacitive effect pixel-sensing technology, high ESD 15KV protection, wide area: 18x12.8 mm, resolution: 256x360 pixels (508 dpi) • Verification Engine: SUPREMA SFR3050 4MB flash • Please note: as the sensor is subject to wear and user's negligence, it is NOT covered by our two years warranty.
PROXIMITY READER OPTIONS	• RFID 125 KHz reader for 64 bit read only, EM4102 compatible tags. • RFID LEGIC® reader for advant ISO 15693 & 14443A, and "prime" multiapplication cards. • RFID for read-only 125KHz HID 26/37 bit cards (H10301, H10304, H10320). • RFID 13.56MHz reader, for MIFARE®, ISO 14443A/B and ISO15693 cards (UID only). (Request of availability. max reading distance 1cm).
CONSOLE	• 2x16 LCD alphanumeric backlit display • 24-key numeric key membrane keypad with function keys • Single tone acoustic signal
COMMUNICATION PORTS	• NET92: RS485 with TMC protocol • COM1: RS232, 3/5 wires, multi-functional (used by the LEGIC® reader, if installed) • (COM2: used by the biometric module)
OPTIONAL ETHERLITE MODULE	• EtherLite for Ethernet /IP connections, on the COM1 or NET92 port (option)
INPUT/OUTPUT	• 3 mono-stable N.O. relays, max 2A @30Vdc • 4 opto-coupled digital inputs - Input resistance: 1K • f2 , activation at 2mA, Imax 50mA
BARCODE INTERFACE (OR SECONDARY CARD READER)	• Internal RJ11 telephone connector (TMC standard) for TTL non-decoded barcoded readers (optical pen CCD or laser - max 50 scans/sec.) Decodes: C128, C39, I25 (ITF), EAN8/13/UPC.
POWER SUPPLY	• 350 mA @ 9…18Vdc
PHYSICAL CHARACTERISTICS	• Coated steel plate, hinged, casing with lock – Size (LxWxH): mm185x190x90 - Mass: 1950 g
WORKING ENVIRONMENT	• Temperatures: when functioning: 0°..+50°; in storage: -25°…°+50° Humidity: up to 100%

942 FingerPROX+/SU