

FingerPass NEO

Multi Factor Authentication Ethernet terminal for access control and time management



BIO-METRICA



Purpose

The FingerPass NEO Terminal effectively solves major challenges faced by any company or organization: To ensure security and management personnel and provide a high level of safety combined with ease of use, reliability, and speed.

Multi Authentication methods

- Fingerprints
- Contactless cards
- PIN numbers
- A combination of contactless cards, fingerprints and PIN-codes

Once identified, the terminal can control electromagnetic or electromechanical locks, turnstile, lock gates, etc.

General

The NEO can operate as an autonomous terminal or as part of BioTime, an integrated biometric time and attendance and access control system.

Here are some advantages of using the NEO with BioTime:

- It maintains a repository of user information across multiple terminals.
- BioTime provides unified user management, as well as centralized control of access rights.
- Allows use to implement anti-passback rules which prevent using another employee's contactless card to enter sensitive areas.
- Makes it simple to track activity via graphs and easy to follow monitoring utilities.
- Create and analyze a variety of robust reports about attendance and physical access events across the entire enterprise.

Strengthened access control for critical areas

The NEO supports a combination of three identity factors: fingerprints, contactless RFID cards and PIN numbers. For more sensitive areas, a combination of these factors can be used to ensure only authorized personal can enter.

Visual and Auditory Identification Indicators

Successful user identification is reported through a variety of means, including a message on the LCD display, a color indicator (LED), or a voice message.

Secure Storage of Confidential Data

The NEO only stores fingerprint templates, which are mathematical representation of a fingerprint. A fingerprint cannot be reconstructed from a template.

Interfaces

The FingerPass NEO supports all major interfaces used in control systems and access control: Ethernet, Wiegand, RS-232, and RS-485. It can be used for new installations or added into an existing access control system. It can also be mounted on any surface and in any place where there are power and LAN sockets.

Optical Scanning Technology

Optical scanning is considered to be one of the most advanced identification (1:N or one to many) technology. It provides the highest quality and accuracy of identification of the skin condition and operates effectively with problematic fingers (dry or damaged skin, etc.).



Biometric Algorithms

The biometric identification algorithm was developed by BioLink. It was tested and found fully compliant by the American National Institute of Standards and Technology (NIST). It is considered one of the best Matching algorithms for both 1:1 and 1:N modes.

High Speed & Performance

With a combination of biometric fingerprint readers and applications, Bio-Metrica provides some of the best performing systems with very fast response times, high accuracy, and excellent performance ratios (low FAR / FRR / FTE, EER etc.).

FingerPass NEO Specifications

Supported authentication methods	Fingerprints, contactless proximity cards, PIN-code, contactless card + fingerprint
Supported cards	MiFare, 1Kb and 4Kb, sensing range - up to 50 mm
Interfaces	Ethernet 100 Mbit / sec, Wiegand (Input / Output), RS-232/485 (Input / Output)
Inputs	Door open switch and door strike
Door Control	NO/NC relay with maximum switched current 2A
The maximum length of communication line	100 m / 328 ft (without repeater)
Power Requirements	(DC): 12V - 15V (power supply unit included into the package)
Consumption	Up to 400 mA; standby = 50mA
Operating temperature	From 0 ° C to +45 ° C / 32 ° F to 113 ° F; Reccomeded operting temperature for optimum fingerprint scanning: From +10 ° C to +35 ° C / 50 ° F to 95 ° F
Humidity	20% - 80% (no condensation)
Enclosure	Wall-mountable
Weight	800 g / 1.76 pounds
Dimensions (length * height * depth)	150 * 145 * 40 mm / 5.9 * 5.7 * 1.57 inch
Access Control	Electromechanical and electromagnetic locks, turnstiles, gates, etc.
Alarm System	Unauthorized persons access attempts, device disassembling/ damage, "alarm fingerprint" capturing
Wireless Door Locks	Included
Fingerprint reader type (part of the terminal)	Optical
Finger scanning window size	20 * 18 mm / 0.787 * 0.7 inch
Fingerprint image resolution	500 dpi
Fingerprint scanning speed	16 fingerprints per second
FAR (false acceptance rate)	0.0001%
FRR (fales rejection rate)	0.0001%
Maximum number of fingerprints in device memory	1500
Number of events in the device log	50,000
"False Fingers" protection	Built In
Fingerprint captured	150K ; 480x320 pixels
Light source	Infrared LED



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