

**2N® Access Unit Fingerprint reader (916019)**

Data sheet and technical specifications

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**Basic description**

The **2N® Access Unit Fingerprint reader** is a luxury looking and absolutely reliable biometric access control system based purely on IP technology. It brings you a safe and convenient way how to open doors using your fingers. **Order number is 916019.**
Connectors

The **2N® Access Unit Fingerprint reader** includes the following elements and connectors accessible to the user:

- Connector description (X10 / X8 / X11)
  - X8: LAN RJ45 cable reduction
  - X10: LAN connection (PoE 802.3af (Class 0; 12.95W))
    - 10/100BASE-TX Auto-MDIX
    - Relay: max. 30V / 1A AC/DC
    - Output: 8V up to 12V DC, max 550mA
  - X11: Inputs: passive or active mode (-30V to +30V DC)
    - OFF = not connected or \( U_{in} > 1.5 \text{ V} \)
    - ON = connected or \( U_{in} < 1.5 \text{ V} \)
• X9 - 2N® Access Unit bus connector

• SW1 - RESET / FACTORY RESET button
LED Signalization:
- LED1, LED2 - status signalling LED (picture above)
- LED3, LED4, LED5 - I/O signalization IN1 - IN3
- LED6 - relay signalization - RELAY1
- LED7, LED8 - LED signalization (green and red)...see below
- LED9 - LAN activity signalization (orange)

IP address settings
- Default setting is DHCP ON
- To **switch DHCP OFF** press and hold the RESET button (SW1).
  - Wait until the red and green signalization LEDs (LED7 and LED8) on the device come on simultaneously (approx. 15 s).
  - Wait until the red LED goes off (approx. 5 s) and release SW1 button

- To **tell the IP address** press and hold the RESET (SW1) button.
  - Wait until the red and green signalization LEDs on the device come on simultaneously (approx. 15 s).
  - Release the RESET button. The device announces the current IP address via inbuilt speaker (in the Access Unit) automatically.

- To **make a factory reset** of the unit press and hold SW1 button.
  - Wait until the red and green LEDs in the right-hand bottom part of the motherboard shine simultaneously (approx. 20 s).
  - Wait until the red LED goes off (approx. 5 s).
  - Wait until the green LED goes off and the red LED comes on again (another 5 s).
  - Wait until the red LED goes off (approx. 5 s) then release SW1 button

- Use 2N® Helios IP Network Scanner to locate the unit in the network
Technical Parameters

Interface

- **Power supply:** PoE and/or 12V ±15 % / 2A DC
- **PoE:** PoE 802.3af (Class 0–12.95W)
- **LAN:** 10/100BASE-TX with Auto-MDIX, RJ-45, connecting block or pigtail RJ-45
- **Recommended cabling:** Cat-5e or higher
- **Supported protocols:** DHCP opt. 66, SMTP, 802.1x, TFTP, HTTP, HTTPS, Syslog
- **Passive switch:** dry and wet contact, up to 30V / 1A AC/DC
- **Active switch output:** 8 to 12V DC according to power supply (adapter: source voltage minus 2 V; PoE: 10V), up to 550mA
- **Inputs:** 3 inputs in passive / active mode (-30V to +30V DC)
  - OFF = open or $U_{in} > 1.5V$
  - ON = short-circuit or $U_{in} < 1.5V$
- **Tamper switch** is a native part of the 2N® Access Unit
- **Speaker:** 0.8W / 8Ω

Fingerprint reader

- Based on optical technology (optical sensor inside)
- Durable glass touch surface
- Rejects spoof fingerprints
- Multicolor LEDs for status indication
- Sealed against water and dust
- Ambient light rejection – sunlight operation
- Large image capture area: 15.24 x 20.32 mm
- Operating temperature range: -20º to 55ºC
- FBI PIV and Mobile ID certification

Mechanical properties

- **Cover:** Robust zinc cast with surface finish
- **Operating temperature:** -20 ºC to 55 ºC
- **Operating relative humidity:** 10 % – 95 % (non-condensing)
- **Storage temperature:** -20 ºC to 60 ºC
- **Dimensions (1-module solution):**
  - Wall (surface) mounting frame: 107 (W) x 130 (H) x 28 (D) mm
  - Flush mounting frame: 130 (W) x 153 (H) x 5 (D) mm
  - Flush mounting box (minimum hole): 108 (W) x 131 (H) x 45 (D) mm
- **Weight:** Max weight: 0.8 kg
- **Cover rating:** IP54, IK08

Refer to the 2N® Access Unit Configuration Manual for more information regarding the installation and configuration.