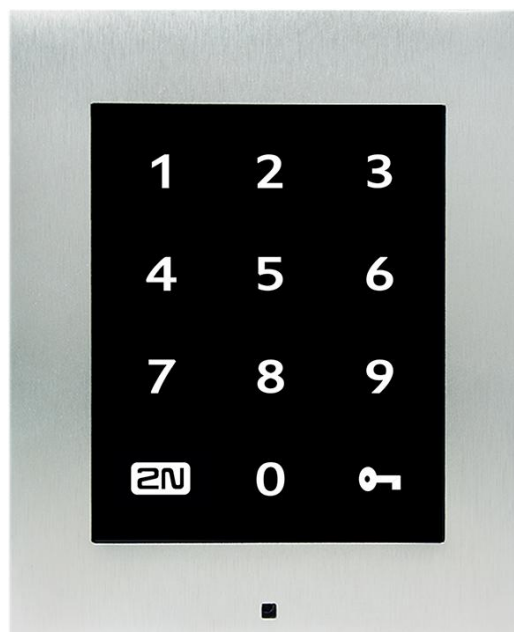




## 2N® Access Unit Touch Keypad (916016)

### Data sheet and technical specifications



#### Basic description

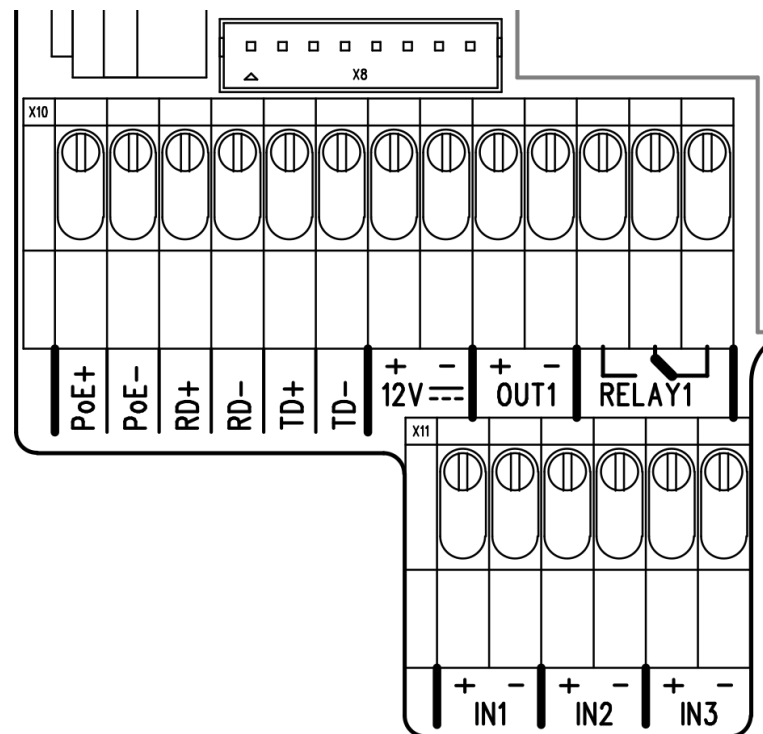
The **2N® Access Unit Touch keypad** is a luxury standalone access control unit purely based on IP technology which works on the basis of capacitive touch sensing. The unit is back-lighted with adjustable brightness which guarantees its visibility even at night or in dark places.

**Order number is 916019**

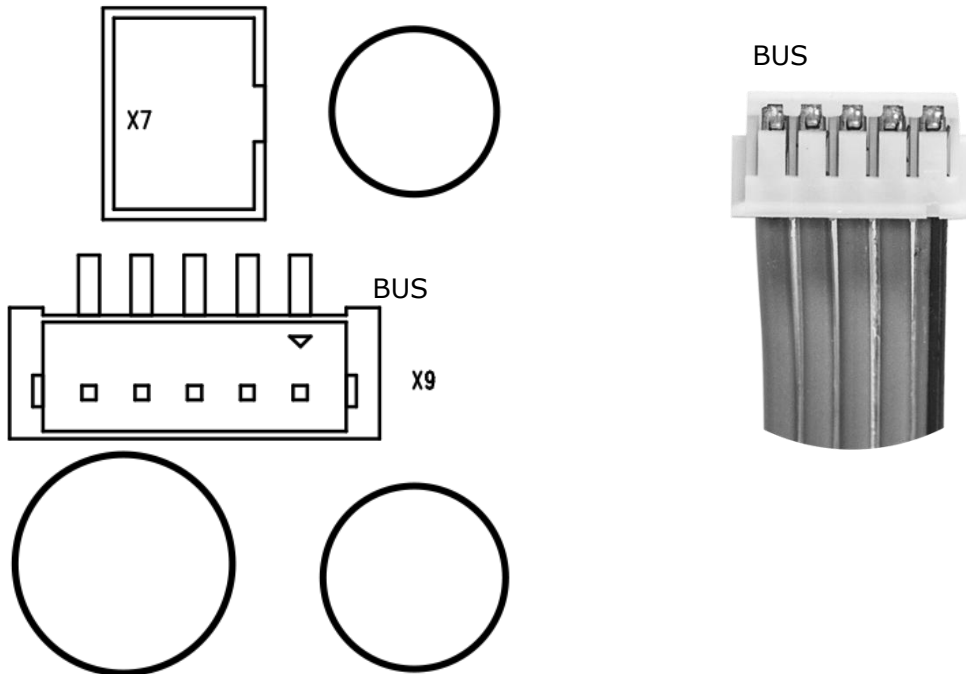
## Connectors

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

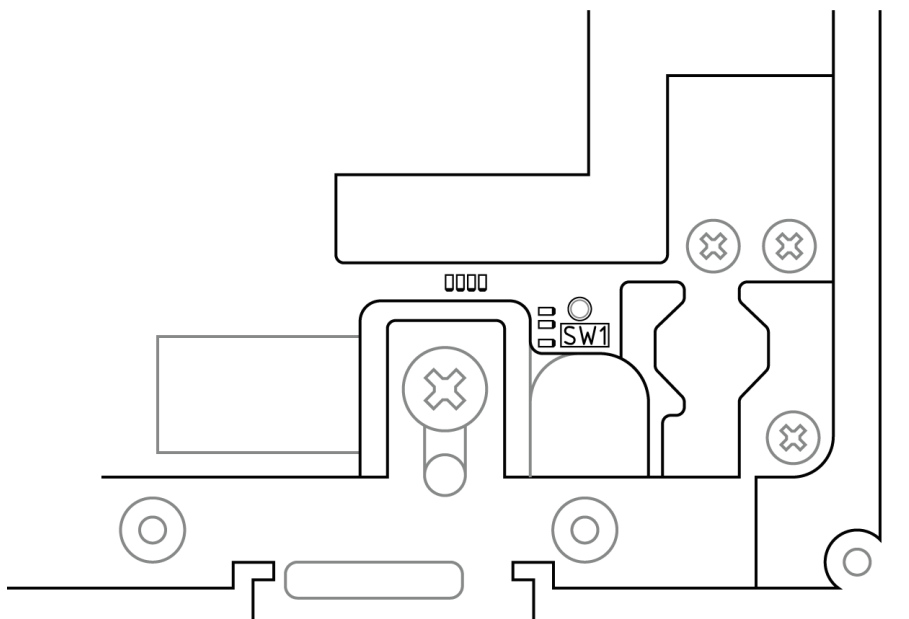
- Connector description (X8 / X10 / X11)
  - X8: LAN RJ45 cable reduction
  - X10: LAN connection (PoE 802.3af – Class 0; 12.95W)  
10/100BASE-TX Auto-MDIX  
Relay: max. 30V / 1A AC/DC  
Output: 8V up to 12V DC, max 550mA
  - X11: Inputs: passive or active mode (-30V to +30V DC)  
OFF = not connected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



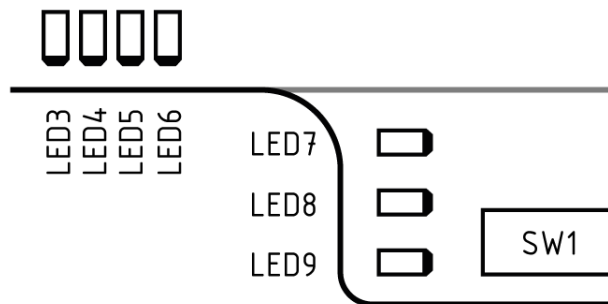
- X9 - 2N® Access Unit bus connector



- 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:** NO and NC 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

### Touch keypad

- Capacitive technology
- High sensitivity of the touch layer (0.1pF)
- Regular automatic calibration (SmartSense Auto-tuning)
- Water tolerance (no false touches on a damp surface)
- Adjustable brightness of back-lighting
- Status signalisation using multi-coloured LED diodes
- Operating temperature range: -20 to 55 °C

### Mechanical properties

- **Cover:** Robust zinc cast with surface finish
- **Operating temperature:** -20 °C to 55 °C
- **Operating relative humidity:** 10 % – 95 % (non-condensing)
- **Storage temperature:** -20 °C to 60 °C
- **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.