Technical Data | ENiQ® RF NetManager V2

Technology:

- Mifare 13.56 MHz
- 2.4 GHz (BLE: Bluetooth Low Energy)

Power supply:

Depending on connection:
- External: 12-24 V DC ± 10% (terminals 7/8)
- Power output (terminals 9/10)[1]
- PoE (terminals 5/6)

Voltage supply must be protected against short circuit!

Current consumption:

- Max. 250 mA (only for reader/control unit)

Time/Date :

- Buffering: 36 hours at +20°C
- Clock drift at +25°C: ± 10 minutes/year
- Clock drift at -20 and +65°C: - 50 minutes/year

Full buffering is available after 150 minutes operating time

Data preservation after power failure:

- Configuration and events: at least 10 years

Interfaces [2]:

- Terminal 18: unused
- Terminal 19: unused
- Terminal 20: unused

Ethernet interface for direct online connectivity:
- Terminal 1: RD-
- Terminal 2: RD+
- Terminal 3: TD-
- Terminal 4: TD+
- Terminal 8: GND

Shield must not be connected to the device!

- Encryption: XSALSA20-256 Bit
- Key exchange: Curve25519-256 Bit (elliptical curve)
- Signature: Poly1305-128 Bit

Communication protocols:

- LLDP, ARP, UDP/IP, DHCP

Connecting cable:

- Recommended cable type: JY(St)Y 2 × 2 × 0.6
  maximum cable length: 500 m (RS 485)

Shield must be connected to ground

Dip switch:

DIP switch	Position	Explanation
1	0	unused
	1	unused
2	0	unused
	1	unused
3	0	Internal bootloader after reset deactivated
	1	Internal bootloader after reset activated
4	0	Status LEDs off
	1	Status LEDs on

[1] Attention!! For DOM reader units only. When using PoE max. one reader unit!
[2] Attention!! Consider position of dip switches!

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Environmental:
- Temperature: -25°C up to +65°C
- Humidity: 20-95% no condensation
- Protection class: IP54 when completely installed (tested according to DIN EN 60529)

Signalling:
- Optical signalling by 4 multicolour LED‘s (moving light effect)
- Additional acoustic signalling

Programming:
- Programming via BLE and online using ENiQ Software

Events:
- Ring buffer for the latest 2000 events

Default IP parameters:
- IP- Address: 192.168.47.11
- Subnet mask: 255.255.0.0
- Standard Gateway: 0.0.0.0

Inductive transponder-interface:
- Reading range: up to 10 cm
- Frequency: 13.56 MHz
- Field strength in 10m distance: < 42 dBµA/m
- In conformity to ETSI EN 300 330
- Supports passive transponders according to ISO 14443 A
- Encryption: Mifare DESFire EV1 / EV2 / EV3: AES-128 Bit
  Mifare Classic: Crypto 1
- Additionally AES-128 bit encryption with object specific keys

Bluetooth Low Energy (BLE)
- Communication range typically up to circa 15 m
- Frequency: 2.4 GHz
- Transmission power: < 10 mW ERP
- Conformity to ETSI EN 300 328
- Encryption: XSALSA20-256Bit
- Key exchange: Curve25519-256 Bit (elliptical curve)
- Signature/Authentication: Poly1305-128 Bit

Inputs control unit:

Two inputs for floating switches:
- Max. cable impedance: < 10 Ω
- Max. cable length: < 20 m

Connected to screw-clamp:
- Terminals 11/12: input 1
- Terminals 13/14: input 2

Except for PoE supply, the inputs are galvanically connected to the interfaces and to the power supply!

- Recommended cable type: JY(St)Y 2 × 2 × 0.6
  Attention: The cable shield must be connected to ground.

Outputs control unit:

One potential-free changeover contact[3]:
- Electric strength: 30V DC 125V AC
- Current load: 1 A/DC 0.3 A/AC

Connected to screw-clamp:

[3] When controlling actuators, which are an inductive load (coil), for example door opener, magnet etc. a freewheeling diode must be used. The freewheeling diode must be connected in anti-parallel.

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	• Terminal 17: normally open contact (NO) • Terminal 16: common contact (C) • Terminal 15: normally close contact (NC)
Logical linking of inputs and outputs:	• Control for temporal and logical linking; different configurations possible *Firmware 4.1 or higher needed!*
Assembly:	• In-wall mounting with flush boxes ∅ 60 × 42 mm (DIN VDE 0606, DIN VDE 0471, DIN IEC 695) • Alternatively with surface mounted frame
	• Metallic objects close to the reader or other disturbing effects may reduce the range of the RFID interface and of the RF interface. • Minimum distance between two devices > 50cm.
Weight:	• Approx. 160 g including surface mounting frame
Size:	• Housing cover: 85 × 85 × 5.5 mm • Mounting frame: 85 x 85 x 10.8 mm • Cover + frame + terminals: 85 x 85 x 26 mm • Frame and surface-mounted frame: 85 x 85 x 32 mm
Plastics:	• Mounting frame and surface-mounted frame: PA6 GF30 • cover: PET / PC
Colour:	Visible components alternatively: • cover: signal white (9003), graphit grey (7024), jet black (9005) • mounting frame and surface-mounted frame: traffic grey (7042)

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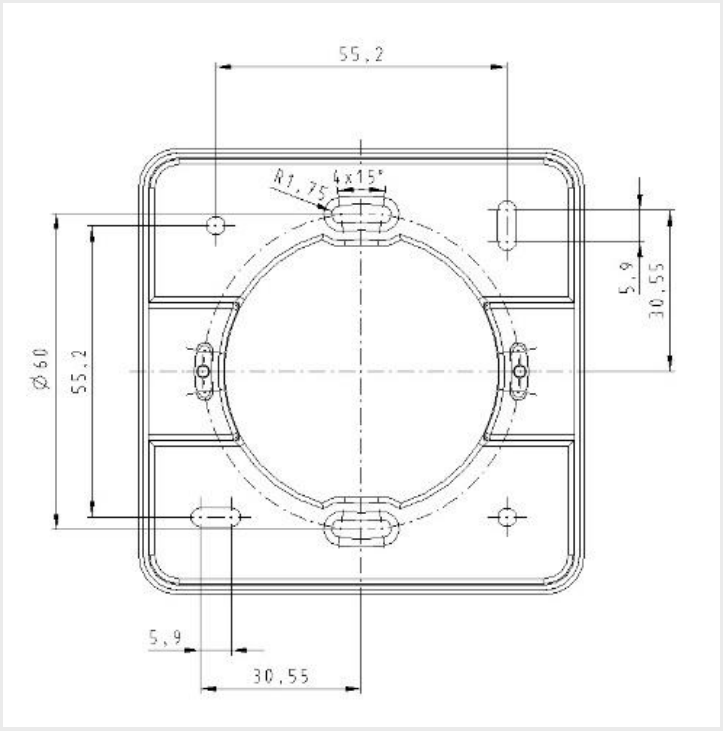
Bolding points surface mounting frame:



These data correspond to the actual development status and are subject to change at any time without notice. All specifications valid at assembly according to installation instructions.