

PROCONTROL[®]

Proxer7

RFID Proximity card reader

Datasheet



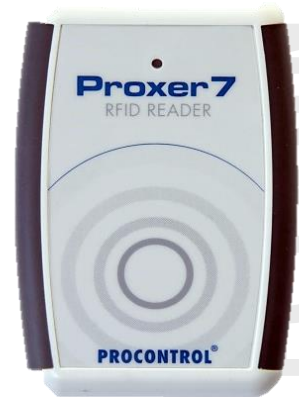
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General description

The Proxer7 is a proximity card reader, which provides RFID cards and transponders (of various shapes, such as wristbands or keyfobs) to read. The Proxer7 enables a secure and simple authentication. The communication without physical contact allows a long service life. The Proxer7 is a widely used RFID reader device, knows a wide range of communications protocols and encoder types.

Features:

- RFID Proximity card reader
- Desktop version with USB or RS232
- Optional wall-mounted version with RS485 and Wiegand
- 125/134 kHz and/or 13,56 MHz
- Encoders, mobile phones with NFC module
- Size: 79 x 117 x 24 mm
- User-configurable properties
- Extensive integration
- Multicolored LED light



Parameters, customization

The Proxer7 has a number of adjustable parameters. The detailed description can be found in these parts of the document:

- Optional card reader- and data transmission modes
- Card data sending to the host device
- Optional communications protocol
- Configurable entitlement feedback
- Variable light and sound signals
- Optional USB peripheral device emulation

Package contains:

- Proxer7(USB): Proxer7 reader+USB A – micro B cable
- Proxer7(RS232): Proxer7(RS232) reader + RS232 serial cable + power supply
- Proxer7(RS485): Proxer7(RS485) reader + 1m patch cable
- Documentation and installation CD, Proxer7Manager program

Option:

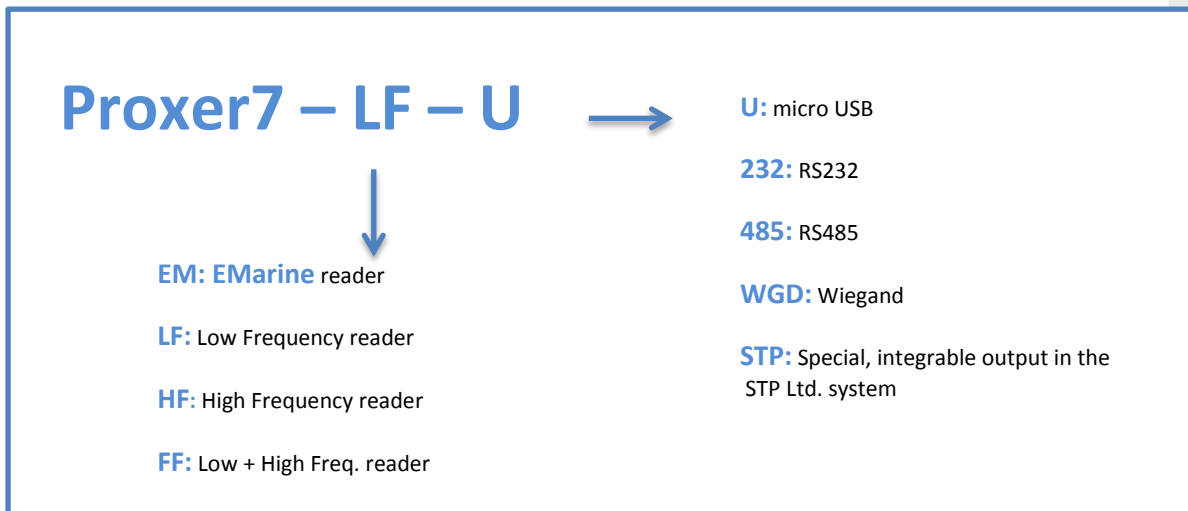
- Power supply
- Cable, passive PoE kit
- Cross cable

Types

Type	micro USB	RS232	RS485	Wiegand	Low Frequency reader	High Frequency reader	Outer output	Inner output	STP output
Proxer7-EM-U	√				Only EM		√		
Proxer7-LF-U	√				√		√		
Proxer7-HF-U	√					√	√		
Proxer7-FF-U	√				√	√	√		
Proxer7-EM-232		√			Only EM		√		
Proxer7-LF-232		√			√		√		
Proxer7-HF-232		√				√	√		
Proxer7-FF-232		√			√	√	√		
Proxer7-EM-485			√		Only EM			√	
Proxer7-LF-485			√		√			√	
Proxer7-HF-485			√			√		√	
Proxer7-FF-485			√		√	√		√	
Proxer7-EM-W				√	Only EM			√	
Proxer7-LF-W				√	√			√	
Proxer7-HF-W				√		√		√	
Proxer7-FF-W				√	√	√		√	
Proxer7-T-EM-485STP			√		√			√	√

All the Proxer7 type is available in external design.

Explanation of the type designation



Communication interface and output

Explanation:

External interfaces: Desktop application. The connector is on one of the shorter outsides of the device.

Internal interfaces: The connector is in the inside of the device. Fixed reader applications (wall-mounted terminal)

One-way communication: Only for data sending.

Two-way communication: Data sending, receiving.

Type	Direction of communication	Configuration	Type of connector
U	2 Direction	Outer	micro USB-B, USB 2.0
RS232	2 Direction	Outer	9 pole D-SUB, 5,5mm DC connector socket
RS485	2 Direction	Inner	RJ45 connector

Wiegand	1 Direction	Inner	4 pole connector
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RFID interface attributes

Name	Operating frequency range
Low Frequency reader	125-134kHz
High Frequency reader	13,56MHz

Available in desktop version:



Available is outdoor version:



Technical description

RFID Proximity compatibility, features

Frequency	Card types
<p>Low frequency (125/134kHz)</p>	<ul style="list-style-type: none"> • eMarine (EM4100,4102,4200) • ProxCard II • Indala • Indala Kantech • ISO 18000 • ISO 11784/85 HDX • ISO11784/85 FDX(-B) • TI RFID (Tiris) • Casi Rusco • HITAG 1/S • HITAG 2
<p>High frequency (13.56MHz)</p>	<p style="text-align: center;">ISO-14443A</p> <ul style="list-style-type: none"> • Mifare Classic (1k/4k) • Mifare Ultralight • Mifare DESFire • Mifare Plus • Mifare ProX • Mifare SmartMX • SLE66R35 <p style="text-align: center;">ISO-15693</p> <ul style="list-style-type: none"> • Texas Instruments TAG-IT Plus • Texas Instruments TAG-IT Standard • Texas Instruments TAG-IT Pro • PicoPass • HID iClass • Legic Advant <p style="text-align: center;">ISO-14443B</p> <ul style="list-style-type: none"> • SRI512, SRT512,SRI4K,SRIX4k • ISO-14443B <p style="text-align: center;">ISO-18092/NFC</p> <ul style="list-style-type: none"> • NFCIP-1 • NFC card emulation (passive) • Mobile phone with NFC functionality (Android, iOS, Windows Mobile)with the previously mentioned modes

Technical parameters

Electrical parameters		
Name of parameters	Connector type	Technical parameter
Power supply voltage	USB	5V
	RS232, RS485, Wiegand	12 - 24V
Power consumption	USB	~750mW
	RS232, RS485, Wiegand	~250mW
Average reading distance	All-type	0 – 5cm
Connector type	USB	microUSB AB
	RS232	9 pole D-SUB, 5,5mm DC
	RS485	RJ45
	Wiegand	4pole serial terminal
Communication standard	USB	USB 2.0
	RS232	RS232
	RS485	RS485
	Wiegand	Wiegand 26 (< 37) bit
LED indicator	All-type	1 LED with 3 color (Red, Green, Orange)
Operating parameters		
Operating temperature		-25 – 50 °C
Relative humidity		0 – 95 %
Operating Elevation		0 – 3000 m
Storage temperature		-15 – 45 °C
Storage relative humidity		0 – 95 %
Storage altitude		0 – 15000 m
Volume		max 85 dB
Physical parameters		
Height		24mm
Width		78,97mm
Depth		117,23mm
Weight		65g
Color		RAL7035, RAL7012