

# RFID Reader with FM-Pro3 / FM-Pro4 / FM-Tco4 Devices

## Introduction

This compact proximity reader is working with smart labels that comply with ISO15693 13.56MHz standard. Is a very high performance proximity reader featuring medium range and small dimensions. The unit will run from any voltage from 5~18 V (DC). It also features good read range at 5 Volts, making it ideally suited to a wide variety of applications, particularly access control.

## Legal information

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## Document change log

Date	Version	Change details
2015-09-15	1.0	Initial draft
2015-11-18	1.1	Technical specifications update

## Main features

- Size 83 x 47 x 16 mm
- RS232 interface
- Internal signaling LED and buzzer
- Wide application range
- Resistant to weather conditions

## Technical specifications

Parameter	Value
Power supply	5 ~ 18 V regulated DC
Power consumption	150 mA at 12 V
Interface (on Ruptela devices)	RS232
Frequency	13.56 MHz
Card type	MF1 standard 1024/4096 bytes
Card format	MAD1/MAD2
Maximum reading range	2~5 cm at 5~18 V with Mifare card
Indication	Internal LED and buzzer
Operating temperature	-10 - 60 °C
Operating humidity	10 - 90 %
Dimensions	8,3 x 1,7 x 1,6 cm

## Pinout

Wire color	Connection place
Green	RS232 connection (to FM device RS232 port`s TX cable)
Blue	Buzzer
Brown	LED
Black	Ground
Red	Power supply 5-18 V

## Configuration

Open the FM Device Configurator (see picture below).

1. Select your device: *FM-Pro3/ FM-Pro4/ FM-Tco4*.
2. Click on the "Options" button in the "IO events" section
3. Select a free slot for a new parameter.
4. Put a tick in the "Enable" checkbox.
5. In the "**ID**" section use the down menu and choose the "*RFID PortA*" (if reader is connected to the FM Device's Port B, then choose "*RFID PortB*").
6. In the "**Event on**" drop down list we recommend choosing "*Change*".

In the "**Interfaces**" section, choose a port where you have connected your Reader. Put a tick in the "PortA" or "PortB" checkbox, then in the drop down list on the right choose "*RFID reader*".

