

125 kHz and 13.56 MHz ATEX RFID readers



The ATEX RFID reader range is a series of 125 kHz and 13.56 MHz RFID card readers according to ATEX II 2 G/Ex db IIC T6 Gb and ATEX II 2 D/Ex tb IIIC T85°C IP66 standard.

These ATEX readers are explosion-proof RFID card readers and can be used for example in tank terminal areas or any other area which has ATEX classified zones.

The ATEX reader range consists of an ATEX rated heavy duty aluminum epoxy coated casting with a chemical resistant viewing window and can be equipped with a reader for MIFARE® and NFC UID, MIFARE® R/W, EM4200/Atmel 5577 or HID Prox® 26-37bit and a wide selection of data interfaces.

Some of the highlights :

- Multiple interfaces integrated
- Available in 125 kHz and 13.56 MHz version
- Reading distance up to 15 cm depending on RFID technology
- 3 LEDs and 1 Buzzer can be driven externally
- Variable operating voltage of 5 - 13.6 VDC

Application domains :

- Security systems, e.g. access control
- Personnel time recording
- Operator identification
- Identification in outdoor areas, i.e. refuelling

Supported technologies :

- ATEX-EM :
 - EM4200, Atmel 5577 and compatibles
 - Hitag 2 in public mode A
- ATEX-H :
 - HID Prox H10301 (26 bit format)
 - HID Prox H10304 (37 bit format)
- ATEX-MF (UID only) :
 - Mifare Std 1k and 4k
 - Mifare Ultralight
 - Mifare DESFire
 - Mifare PLUS S
 - Mifare PLUS X
 - NFC Passive mode (NTAG2xx, NTAG2xx)
- ATEX-MFS (full sector access):
 - Mifare Std 1k and 4k

Specifications :

- Power supply : DC +5,0V to 13,6V
- Power consumption : Typ. 100mA (80mA @ 5VDC)
- User-selectable data output formats : Wiegand, Clock/Data, RS232, TTL
- RS485 interface optionally available for ATEX-EM and ATEX-MF
- Frequency : 125 kHz or 13.56 MHz
- Indications : 3 LEDs (Green/Red/Yellow) + Buzzer
- Transmission : Continuous (while tag in the field) or single transmission
- Operating Temperature : -30°C ~ +60°C
- Protection rate : IP66
- Humidity : 10 – 95 %
- Dimensions : 160 x 131 x 160 mm (additional screw connection), weight : 2140 g
- ATEX certified : ATEX II 2 G/Ex db IIC T6 Gb and ATEX II 2 D/Ex tb IIIC T85°C IP66