

Product features

The RX1K advanced access control reader is an elegantly designed unit, featuring an RGB illuminated keypad offering the additional security of PIN entry. The unit is ideal for surface mounting to most plain surface finishes, and also fits directly onto a UK or EU electrical backbox.

This powerfully secure and innovative reader has a beautifully clean aesthetic and sports, as standard, a pulsing RGB LED that can be applied to many applications, e.g., colour access levels, migration status or mood lighting.

The unit is moulded using tough polycarbonate plastic and includes a shadow line backplate, a subtle design mechanism that makes the reader, when fixed, appear to float against the wall.

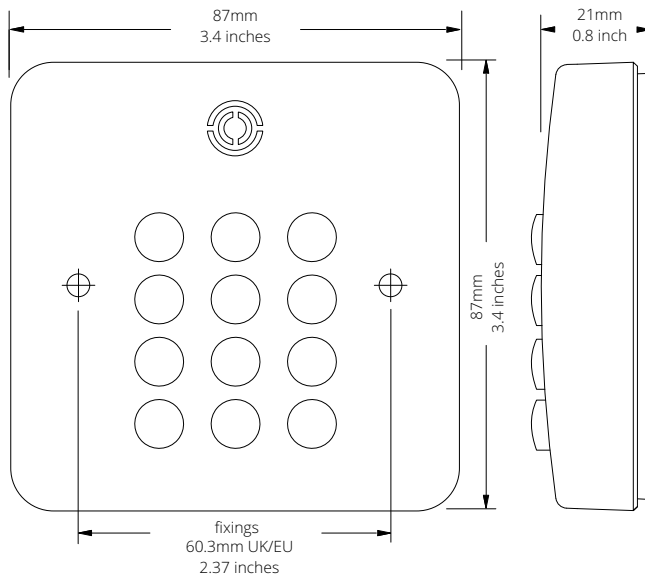
Interfacing

This reader supports a wide variety of output formats allowing it to be used in most access control and related applications, e.g., time-and-attendance, cashless vending etc.

The combination of an integral speaker, RGB LED, three control inputs, and a variety of LED/buzzer/and external control options, provide a flexible platform to give the right user interface configuration for your project.

Quality design

Third Millennium has more than 20 years of award-winning experience in the design and manufacture of RFID technology, and the delivery of world class, state-of-the-art access control projects to our many global partners.



RX1K



Key Features

- Multi technology
- UK design and manufacture
- Black high gloss finish
- Slim profile
- RGB LED
- RGB LED illuminated keypad
- Fully encapsulated electronics
- Optical tamper switch (RX1K90PLUS)
- Wide range of output formats
- Read range up to 10cm (4 inches)
- 5 year limited warranty
- Wall spacer or backbox fitting (optional extra)

Technologies supported



MIFARE Classic®
MIFARE®DESFire®
CSN or Sector data

Registered Partner



prime / advant

Our 125kHz Proximity readers are capable of supporting:



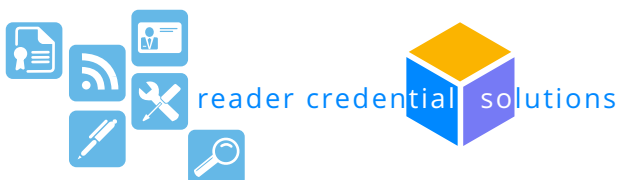
- EM variants
- HID® Proximity Compatible
- KANTECH Compatible
- FARPOINTE Compatible
- AWID Compatible
- CASI Compatible

... and other widely used 125kHz Proximity technologies.



CUSTOMER CONFIGURATION

All our readers are fully configurable to your specification and requirements.



Depending on the level of reader design you choose, a variety of control outputs can be applied, including multiple card formats, LED colours and external control options.

technology access control readers credentials

Specifications



Mechanical

Dimensions:	87 x 87 x 21 mm (3.4 x 3.4 x 0.8 inches)
Housing:	Moulded polycarbonate
Mounting:	Suitable plain surface
Fixing holes:	4mm., maximum diameter + UK / EU electrical backbox

Environmental

Operating Temperature:	-35°C to +66°C
Humidity:	85±5% at 30±2°C (86±3°F)
Ingress protection:	IP65

Our readers are fully configurable to your requirements, and using our - [Reader Credential Solutions](#) we can offer and supply an integrated package of RFID technologies, control readers, RFID cards, fobs and accessories.



Electrical

Voltage:	+10Vdc to +16Vdc
Current:	350mA typical
Data Voltage:	Rest >4Vdc / Active <1Vdc
Data Output:	Wiegand, Clock and Data, *OSDP
Indication:	1 RGB LED + RGB keypad
Sounder:	Integral speaker

Connection

* Connection

1 - +Vdc	Supply voltage (+10 - 16Vdc)	1 - 0V	Supply voltage ground
2 - DATA1/CLK	Wiegand or Clock/Data output	2 - +Vdc	Supply voltage (+10 - +16Vdc)
3 - DATA0/DAT	Wiegand or Clock/Data output	3 - DATA1/CLK	Wiegand or Clock/Data output
4 - GREEN	Green LED control input	4 - DATA0/DAT	Wiegand or Clock/Data output
5 - RED	Red LED control input	5 - GREEN	Green LED control input
6 - BUZZER	Buzzer control input	6 - RED	Red LED control input
7 - TMPR/CP	Tamper or Card Present output	7 - BUZZER	Buzzer control input
8 - 0V	Supply Voltage Ground	8 - TMPR/CP	Tamper or Card Present output
9 - TTL TX	TTL transmit line	9 - RS485-	RS485 Bus
10 - TTL RX	TTL receive line	10 - RS485+	RS485 Bus

Certifications

FCC Part 15 | CE marked | RoHS | WEEE

Technology options, output and RFID card solutions (standard configurations)

part No.	frequency	technology	data output	keypad output	optical tamper	RFID card
RX1K00	125kHz	HID® Prox + EM variants	Data Pass Through (Wiegand / C&D)	HID® 4-bit	N/A	PC03
RX1K80	13.56MHz	MIFARE® Sector	Data Pass Through (Wiegand / C&D)	HID® 4-bit	N/A	PC08
RX1K80PLUS	13.56MHz+125kHz	MIFARE® Sector + HID® Prox	Both Data Pass Through (Wiegand / C&D)	HID® 4-bit	N/A	PC38
* RX1K90	13.56MHz	MIFARE® DESFire®	Data Pass Through (Wiegand / C&D)	HID® 4-bit	ENABLED	PC09
* RX1K90PLUS	13.56MHz+125kHz	MIFARE® DESFire® + HID® Prox	Both Data Pass Through (Wiegand / C&D)	HID® 4-bit	ENABLED	PC39
* RX1K90/OSDP	13.56MHz	MIFARE® DESFire®	Data Pass Through	HID® 4-bit	ENABLED	PC09
* RX1K90PLUS/OSDP	13.56MHz+125kHz	MIFARE® DESFire® + HID® Prox	Both Data Pass Through	HID® 4-bit	ENABLED	PC39

- PLEASE CALL to discuss your CUSTOM CONFIGURATION or LEGIC® reader requirements.

The RX SERIES of access control readers



Third Millennium Systems Ltd.
18 / 19 Torfaen Business Centre
Panteg Way New Inn
PONTYPOOL NP4 0LS United Kingdom