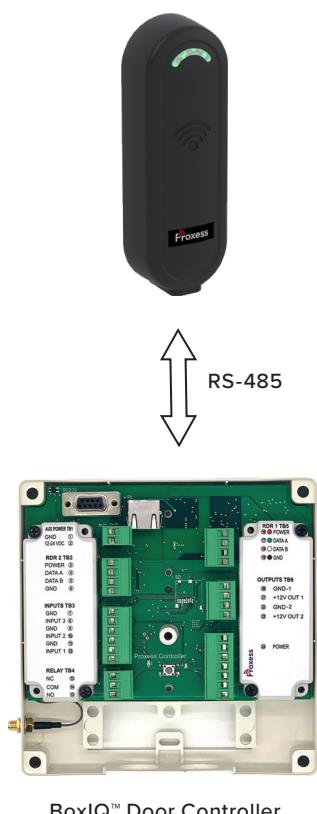# Proxess
RoxIQ

Dual-Tech, Smart Card & BLE Readers

Proxess emphasizes simplicity, flexibility and security, and RoxIQ™ online card readers exemplify this standard.

The RoxIQ™ reader line reads both the most secure Mifare DESFire EV1, EV2, & EV3 RF credentials and BLE (Bluetooth™ Low Energy) near or long-range (mobile) credentials. Proxess credentials are provided in a restricted range, to which Proxess adds a proprietary app and encrypts all read-write data using AES128 standards. Further, communications between the reader and the controller are encrypted bi-directional handshakes using RS-485, providing the ultimate in security.

To enhance cost-effective security solutions, Proxess promotes installing LoxIQ™ locksets throughout a building interior that integrate with these high security readers.

With a software checkbox, credentials can be de-authorized from entering those locksets for a user definable time until the card is presented at a RoxIQ™ online reader to be re-authorized. This additional and automated security layer defeats many tailgating scenarios and can eliminate the constant area-resets that are associated with hard anti-passback features on other systems.

For security desk verifications, any client computer may be set to view the stored photos of real-time card swipes at a selected reader and roaming guards can view user photos upon presentation to a mobile app.

Long-range BLE mobile credentials, typically used for vehicle gate applications and for having a door unlock conveniently upon approach are also supported.

RS-485

BoxIQ™ Door Controller
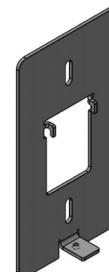
RX-MU2
RS-485 Reader

RX-SGMP
Single-Gang Adapter Plate
*Included with each reader purchase

Proxess

proxess.com

FEATURES

RX-MU2

RX-MU2 shown with
Single-Gang Adapter Plate

COMPATIBILITY	Proxess RoxIQ™ bi-directional, encrypted read-write readers connect via RS-485 to the controllers, future-proofing your infrastructure investment.
SECURITY	Proxess communications utilize encrypted handshakes to both the controllers and the credentials. Proxess restricted range credentials add a secured app and are read-write for dynamic data transfers from field hardware while never transmitting card numbers.
FORCED RE-AUTHORIZATION	With Proxess' simplified anti-passback alternative, one checkbox forces cardholders to use an online\chokepoint reader for their credential reauthorization, programmable from one day to many years.
VERSATILITY	Proxess mobile credentials can be read up to 20 feet or more away for use at vehicle gate or for convenience in opening doors upon your approach.

Proxess

FEATURES

CONNECTIVITY	Simplified installation with two wires for data and two wires for power.
SECURITY	Encrypted, bi-directional handshake with a secure app in a restricted credential range.
LONG RANGE	Compatible with approved long-range BLE mobile credentials.
REMOTE UPDATES	Update credential rights at remote locations & upload card transactions. No local PC is required. Just provide a network connection to the controller.
RE-AUTHORIZATION	Option to enforce a card presentation at an on-line reader to re-authorize the cards at offline locksets.
ENCRYPTION & MORE	Hacking of all Wiegand communications and traditional Prox and Mifare cards and readers have been well publicized. Proxess' Network-on-Card, embedded app and bi-directional handshake along with ISO encryption technologies virtually eliminates these threats.

ADDITIONAL FEATURES

✓	Dual-technology, encrypted Mifare DESFire EV1, EV2 & EV3 and BLE (Bluetooth Low Energy)
✓	Secure, bi-directional RS-485 communication with the door controllers
✓	Encrypted read\write handshake with Proxess credentials
✓	Authenticates within a restricted credential range with a secure embedded application layer
✓	Re-authorization hot-spot for interior offline doors defeats tailgating and eliminates hard anti-passback reset issues
✓	Remote credential updates
✓	Long range access with Mobile Credentials
✓	Uploads lockset transactions and encrypts updates for those locksets onto credentials

Proxess

SYSTEM SPECIFICATIONS

HOW TO ORDER:

Part Numbers:	RX-MU2

Communication	
Close Read Range	Approx. 2", Credential Dependent (13,56MHz)
Long Read Range	Up to 20' (BLE, 2.4GHz)
Reader to Door Controller	1,000 feet
Visual Indicator	RGB LED Bar
Audible Indicator	"Beep"

Wiring	
RS-485	2-wire, 230Kbps
Power	12 VDC, 150 mA max

Environment	
Operating Temperature	-40°C - +70°C; -40°F - +158°F
UL294	Pending
FCC	Part 15 Certified
IC	RSS

Models	
RX-MU2	Mullion Mount
RX-SGMP	Single-Gang Box Mounting Plate, Metal

Credentials	
Mifare DESFire EV1, EV2 & EV3 (with Proxess App)	13.56MHz
BLE (Bluetooth Low Energy) (with Proxess Mobile app)	2.4GHz

Hardware	
Housing	ABS Plastic
Backplate	Metal (SECC)
Weight	5.11 oz (145g), Mullion; 7.44 oz (211g), with RX- SGMP

Dimensions	
Reader, including Mullion Mounting Backplate	
Height	4.93" (125mm)
Width	1.77" (45mm)
Depth	1.05" (27mm)
Single-Gang Backplate (substitute for Mullion Backplate)	
Height	5.25" (134mm)
Width	2.75" (70mm)

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