

UR225-MS 13.56MHz RFID Reader

■ INTRODUCTION

The UR225 brings the concept of "Your Reader" which is a stylish, reliable proximity RFID reader with piano finish housing which really shows seamless integration to an intelligent building. For those high end projects, UR225 fulfils its requirement in both excellent performance and flexible appearance, such as changeable housing with customized logo, LED colors or even the buzzer sound which are all configurable to meet wide range of applications in Access control area or Home automation area. With waterproof design, it also serves as a great outdoor reader in all environment.



UR225-MS

■ FEATURES

- Mifare Card 13.56MHz read only
- RS232(Universal Asynchronous Receiver/Transmitter)
- Weather resistant
- Available installed on metal surface
- Reading distance: up to 2~5 cm
- New stylish housing to match modern construction for customer design

■ SPECIFICATIONS

OPERATING

Transmit Frequency	13.56MHz standard
Transponder	ISO14443A Card Read Only
Reading distance	2~5 cm with Mifare 1K/4K card.
Interface	RS232

ELECTRICAL

Power Input	7.5 to 12 VDC. Linear supply recommended.
Current Requirements	90 mA @12VDC

MECHANICAL

Dimensions	Length : 87 mm / Width : 32 mm / Height : 16.5 mm
Weight	50 gm (Without Cable)
Cable Length	150 cm +/- 3cm

ENVIRONMENTAL

Temperature	Operating : 0 °C to 55 °C Storage : -10 °C to 65 °C
Humidity	Operating : 10 % to 90 % noncondensing Storage : Up to 100% noncondensing

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■ TERMINAL / INDICATOR DESCRIPTIONS

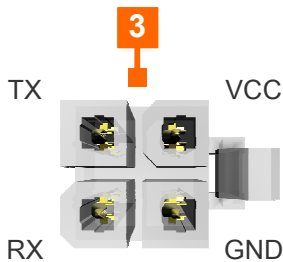


1 LED Indicator

Green	Red	Blue	Description
Off	Off	On	Standby
Off	On	Off	ISP Mode
Other			Software Control

2 Sound Indicator

Buzzer	Description
	Software Control



3 Terminal (Mini Fit)

Pin	Color	Signal	In/Out	Description
1	Red	VCC	P	Power 7.5-12 Volts
2	Black	GND	P	Power Ground
3	Green	TX	I/O	RS232 TX (transmit)
4	White	RX	I/O	RS232 RX (receive)

Pin2,4 output with internal 2K pull up

■ CONNECTION

Data Structure for RS232

Host to UR225

STX	"J"	"n"	CR
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Baud Rate : 19200,N,8,1

"n"	Description
O	Green LED On ,2 short high-pitched beeps
X	Red LED On ,1 long low-pitched beep
R	Blue LED On ,standby mode

STX : 0x02

CR : 0x0D

[Ex.] Blue LED On ,standby mode :

Host

STX	"J"	"R"	CR
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Device

STX	"A"	CR
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■ OUTPUT FORMAT

Data Structure (Serial ASCII)

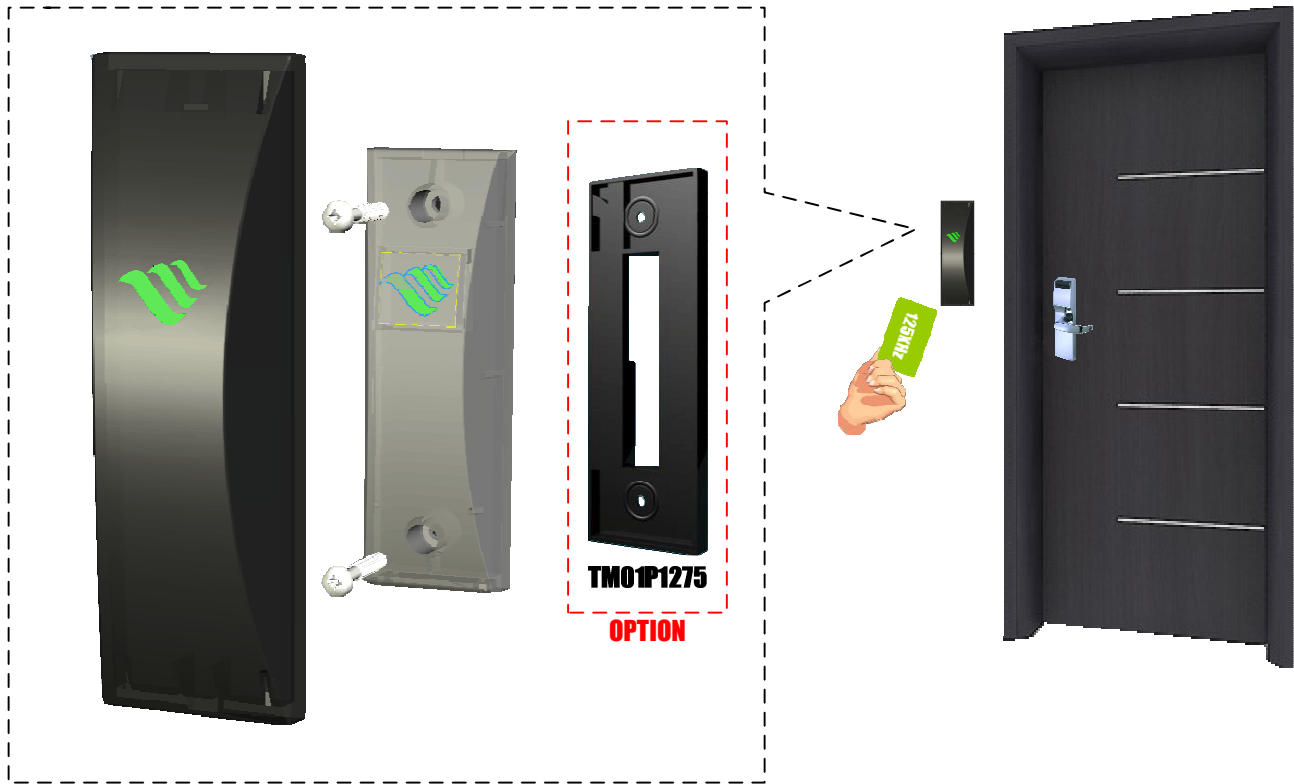
Baud Rate : 19200,N,8,1

STX(02 HEX)	DATA(8 HEX CHARACTERS)	CR	LF	ETX(03 HEX)
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The start character is factory defined as an 'STX' (02 HEX). This is followed by 8 Hex characters of data . The CR\LF characters serve to bring the received screen text back to the left hand side and on the line below after the data bytes have been sent. The 'ETX' (03 HEX) character denotes the end of the current transmission.

Installation

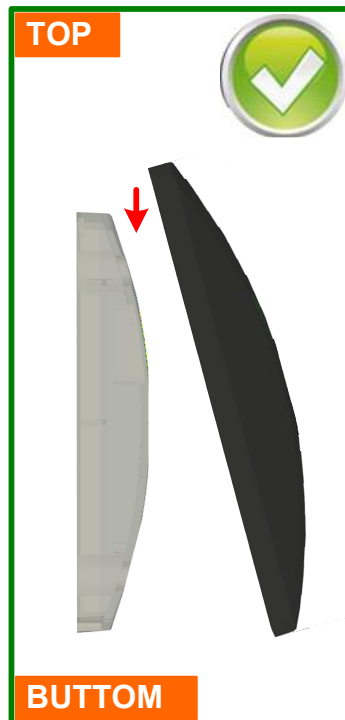
For the installation, the inner reader requires two screws to be fixed on the proper location next to the entrance. The outer black housing will apply on top of the reader.



Please pay special attention to the below instruction which demonstrates the proper direction that outer housing needs to be applied to inner reader.



Above picture shows the inside of the outer housing.



Above picture shows the correct direction (TOP) that outer housing needs to be applied.





CAUTION:

The crossed out wheeled bin label that can be found on your product indicates that this product should not be disposed of via the normal household waste stream.

To prevent possible harm to the environment or human health please separate this product from other waste streams to ensure that it can be recycled in an environmentally sound manner.

For more details on available collection facilities please contact your local government office or the retailer where you purchased this product.

This information only applies to customers in the European Union.

For other countries, please contact your local government to investigate the possibility of recycling your product.