

# Wall Mount EM Reader WM9911EM

## Introduction

The wall mount EM reader WM9911EM utilizes EM technology to read contactless EM cards. This reader is suitable for OEM customers. Customer logo can be printed on the reader.

## Specifications

### Power Requirements

9-12V DC at 100mA. A linear regulator is recommended.

### Interface

Standard wiegand 26 bits for connection to standard access control panels.

RS-232 interface -> baud rate : 9600, data bits : 8, stop bit : 1, parity : N

for connection to PC's or dedicated microcontrollers.

RS232 output data format (Hex) : AA B1 B2 B3 B4 B5 CS BB in Hex format

**AA** : BOF, **B1 to B5** : 16 HEX code, **CS** : B1 xor B2 xor B3 xor B4 xor B5, **BB** : EOF

B1 to B5 equal the card 40 bit serial no.

### Read Range

Safety read range for 7cm with standard EM H4100 card.

### Frequency

125kHz standard

### Operating temperature

-22° to 150° F (-30° to 65° C)

### Operating humidity

0-95% relative humidity non-condensing

### Audio/visual Indication

Green, Red , Yellow led bar and Buzzer

### Dimensions

86 mm x 86 mm x 21 mm

### Response Time

Less than 0.1 sec

### Cable distance

Wiegand interface: 500 feet (150 m)

RS232 interface: 50 feet (15 m)

Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control.

Wire Color		
1	9-12VDC	RED
2	GND	BLACK
3	BUZZER	YELLOW
4	GREEN LED	ORANGE
5	D1 / CLK	WHITE
6	D0 / Data	GREEN
7	HOLD	BLUE
8	RX	PURPLE
9	GND	GRAY
10	TX	BROWN
	RS232	9600,8,1,N