
















## 125KHz Low Frequency Reader

### Design & Technologies

-  Support reader to read either EM or HID cards.
-  Number pad use "touching sensor", the latest technology and individual number backlit when touch.
-  Display Magic can provide customer a full series of choices
-  Support on-site Reader Configuration Card to change certain parameters.
-  OLED Display allow user to see the message clearly under direct sunlight.
-  Economical Mini Magic can be mullion mount.
-  Front plate customization and back lit design is available.
-  Design with End User logo is possible.
-  Door Bell function for Number pad reader.
-  Tamper protection

### Friendly Installation

-  "Touch" number pad does not carry any moving parts, which implies more durable.
-  All models are filled with epoxy and weather proof.
-  Metal back plate allows the reader install on metal surface and back-to-back without affecting the read range.
-  Universal back plate allows the reader be installed on different size of gang box.
-  Non-drop bottom screw made servicing handier.
-  All input and output signals are protected against static charges.
-  Reverse power protection.
-  Stainless steel Security screw is an option
-  All inputs are 12Vdc protected.

**Model Number:****X<sub>1</sub>X<sub>2</sub>N<sub>1</sub>N<sub>2</sub>2-N<sub>3</sub>X<sub>3</sub>**

<b>X<sub>1</sub>X<sub>2</sub></b>	EM = EM Technology HR = 125KHz Technology
<b>N<sub>1</sub></b>	3 = Normal Reader 5 = Display Reader
<b>N<sub>2</sub></b>	2 = Normal Size; 8 = Mini Size
<b>N<sub>3</sub></b>	3 = Terminal (for Display Reader) 8 = Pigtail
<b>X<sub>3</sub></b>	N = No Number pad; K = Number pad

Description	125K*	EM
Mini Reader	HR382-8N	EM382-8N
Read Only	HR322-8N	EM322-8N
Number pad Reader	HR322-8K	EM322-8K
OLED Display Reader	HR522-3K	N/A

Model Functions	EM382 HR382	EM322 HR322	HR522
<b>Configurable Functions</b>			
Re-configure Window	5 seconds (Default) or Half an hour after Power up		
Reader Output Format	Only available for EM reader		N/A
Wiegand Plus Width	Different choices		
Keypad Output	N/A	Definable	Definable
Buzzer Control	Reader & Controller control (Default) or Controller control only		
LED/Back lit Control	Define different LED color response base on Green LED		N/A
Display Clock Synchronization.	N/A	N/A	<ul style="list-style-type: none"> <li>H/W reset</li> <li>Via RS485 TimeSyn S/W</li> </ul>
<b>Technical Specifications</b>			
Typical Read range	>5cm		
Reader Standard Output	Wiegand		
Standard Keypad output	N/A	Wiegand with 4 bits burst	Wiegand with 4 bits burst
Display	N/A	N/A	OLED Display
Display Message	N/A	N/A	<ul style="list-style-type: none"> <li>Access Granted, Access Denied, Enter PIN;</li> <li>Time;</li> <li>Card Number</li> </ul>
Wiring Distance	150m (22 AWG with shielded cable)		120m (22 AWG with shielded cable)
Frequency	125KHz		

**Operating Specification:**

Operating Voltage	10 - 15VDC	Case material	PC+ABS
Operating Current	150mA (max)	Standard Color	Black
Operating Temperature	-30°C-70°C	Exterior dimension	115.5*84.5*20.5mm
Operating Humidity	10% - 90%	Weight	210g

Note: "\*" means read HID card