

AES-MIR20 TX3 RS485 Serial to Wiegand Converter



The AES-MIR20 is a Serial to Wiegand Converter designed to interface the Mircom TX3[™] Telephone Entry Systems to any Access Control System.

Description:

When a resident grants access to a Visitor, the AES-MIR20 captures the data transmitted from the Mircom TX3[™] Lobby Panel to the Phantom Elevator Restriction Controllers. This data is then Converted and Output as Wiegand Data.

Wiegand Card Formats presently available are as follows:

Standard 26Bit (default)Keyscan 36BitRBH 50BitICT34BitHID Corporate1000 35Bit



Mircom TX3TM System Programming Requirements

For the <u>AES-MIR20</u> to work properly, we must program the following items using the Mircom TX3[™] Configuration and Monitoring Utility[™] Software.

1) Add one(1) Elevator Restriction Unit (ERU) Per 128 Residents.

The Elevator Restriction Controllers will always be Offline. THIS IS NORMA! As they do not exist. 2) Add 128 Floor Groups

3) Assign an ERU & Floor group to each resident.

See Screen Shots Below.

Mircom TX3 Configuration and	d Monitoring Utility - Test	
New Open Back Image: Specific state Image: Specific state Image: Specific state Image: Specific state Image: Specific state Image: Sp	trage to the second secon	In this screen we have added three(3) ERU's. The addresses we selected are 10, 20 , and 30.
Mircom TX3 Configuration and Mo File Edit Panels Reports New Open Backup De Job	nhìnhig Utility - Text	
Image: Schedules Image: Schedules Image: Schedules Image: Schedules Image: Schedules	Rev Grap 108 Label Foor Grap 127 Rev Grap 108 Rev Grap 127 esc Rev Grap 101 Rev Grap 127 esc Rev Grap 110 Rev Grap 127 esc Rev Grap 111 Rev Grap 127 esc Rev Grap 114 Rev Grap 120 Rev Grap 117 Rev Grap 117 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 121 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120 Rev Grap 120	In this screen we have added 128 Floor Groups.
Resident Details Name	Resident #1	In this screen we have assigned Resident #1 to
Apt#	101	Use ERU(Panel(10) and Floor Group 1.
Dial code Phone lines Entry	1001 Image: Hide this resident in directory VOIP Elevator Profile	When Resident #1 grants access to a Visitor,
- ♥ Enable Eleva ⊚ Use fi	Iloor group Roor Group 1 Go to Roor Group screen	The wiegand output will be: fac: = 1(default) Card#:1001.
E	Evator Panel Label Panel10 (Bev) Panel20 (Bev)	See Below for Card number calculations.
	ranelJU (Elev)	



AES-MIR20 LAYOUT

Red Led D4 **Blinks Received Serial Data Bytes** O S/N ES-MIR2 To From Mircom TX3TM **Access Control RS485 PORT Reader Port** ntra Access Solutions **Test Button** Card No: 9999 Sent **Green Led D2** Blue Led D3 **Blinks Wiegand Bits sent Out Blinks every Second** When Pressed

AES-MIR20 Terminations





Wiegand Card Formats Available						
Standard	Keyscan	RBH	ICT	HID Corp1000	Other Formats Available	
26Bit	36Bit	50Bit	34Bit	35Bit	Call	

Default Facility/Family Code = One

Card Number Calculations

The Wiegand Card Number, that the AES-MIR20 generates, is derived from the Elevator Restriction Unit (ERU) Address and the Floor Group assigned to each Resident.

Card Number = ERU – Address x 100 + Floor Group.

<u>Example #1</u> Resident #1 ERU-Address = 20 (You can assign Any address from 2 to 63 to the ERU's) Floor Group = 27 Card Number = (20 x 100) + 27 = 2000 +27 = 2027. <u>Example #2</u>

Resident #1 ERU-Address = 30 (You can assign Any address from 2 to 63 to the ERU's) Floor Group = 105

Card Number = (30 x 100) + 105 = 3000 +105 = 3105.

EAS Entra Access Solutions Ltd.

AES-MIR20 SPECIFICATIONS				
Power Supply	9 to 14VDC (Linear Supply Recommended)			
Current	8mA Average, 10mA Peak			
Cable Requirements	Use Access Control & Mircom [™] Recommendations			
OutPut Format	Wiegand 26Bit,36Bit, 50Bit, 34Bit, others.			
Facility/Family Code	One(1)			
Communication	RS485			
Warranty	5 Years against defects in Materials & Workmanship			