

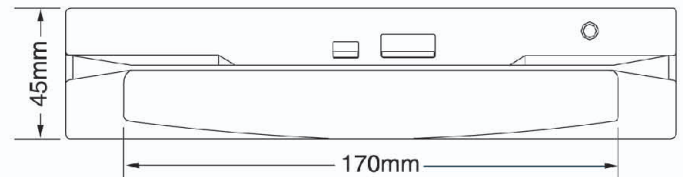
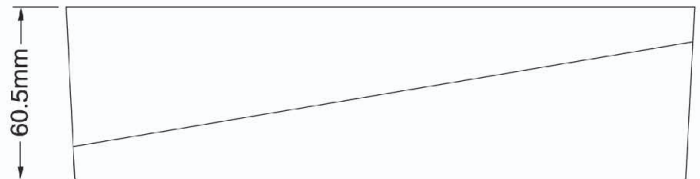
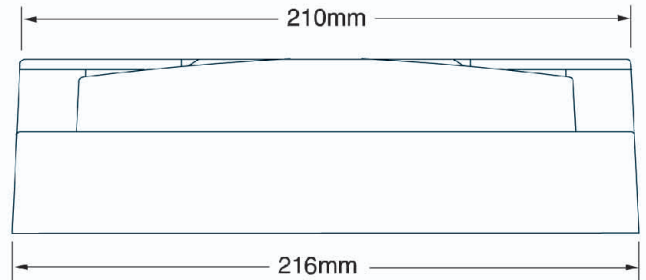
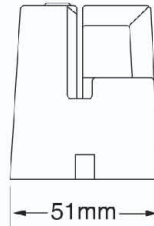
# Manual ATB2 Reader



## MSR220/222 Series

- Read Tickets/Boarding Passes conform to IATA ATB2 722c format
- Designed for boarding gate check in & cards acceptance
- Read magnetic stripe card conform to ISO 7811 or DMV format
- Manual swipe, Bi-directional read with keyboard simulated output
- Read high & Low coercive force magnetic stripe (300-4000 Oe)
- Programmable output data format by keyboard programming
- Audible beeper and LED to indicate card read status

## Manual ATB2 Reader



Specification				
<b>Electrical</b>				
Power requirements	+5VDC $\pm$ 10%			
Consumption	60mA Max.			
Communication	MSR220 : Keyboard simulated interface			
	MSR222 : RS232 interface			
<b>Mechanical</b>				
Body	ABS 94V-0			
Weight	Approx. 540g			
Dimension	216Lx51Wx60.5H mm			
Swipe	Manual, Bi-direction			
<b>Environment</b>				
Operation	-10 to 55°C, 10 to 85% humidity			
Storage	-30 to 70°C, 10 to 90% humidity			
<b>Agency Approval</b>				
Rating	FCC class A, CE class A			
<b>Performance</b>				
Read card	Track1	Track2	Track3	Track4
Bit density	210 bpi	75/210 bpi	210 bpi	210 bpi
Coercive force	Read 300-4000 Oe Magnetic Stripe			
Read speed	Standard	Jitter $\pm$ 15%	Amp. 60%	
	5~45ips	5~45ips	5~45ips	
Card thickness	0.2-1.2mm			
Read error rate	< 0.5%			
Head life	Min. 500K swipes, 1M life optional			

Model Configuration					
Model	Track				Output
	1	2	3	4	Interface
MSR220-ATB2	R	R	R	R	Keyboard
MSR222-ATB2	R	R	R	R	RS232

Interconnection		
Model	MSR220	MSR222
Cable	5 feet, DIN 5 or Mini DIN6 connector for AT/XT KB	5 feet, DB9 connector with power jack

Pin Assignment			
1	Clock	1, 4, 6	Short
2	Data	2	TXD (MSR222 data transmit)
3	--	3	RXD (MSR222 data receive)
4	Ground	7, 8	Short
5	VCC	5	Ground

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