Secureye

DATASHEET

USB Magnetic Strip Reader / Writer

LOCO+HICO Supported

S-MRW12 is manual swipe Magnetic Card reader/writer terminals with RS-232 interface. It supports ISO, IBM, DIN & ANSI standard and can read ISOI, II, III track.

Basic SPECIFICATION			S-MRW12			
MO	TYPE	SERIES	OPTION	TRACK POSITION	NOTE	INTERFACE
GHE	715	1.0A	Mag/passbook R/W	ISO2/ISO3	300Oe	RS232/USB
GHE	715H	1.0A	Mag/passbook R/W	ISO2/ISO3	2750Oe	RS232/USB
GHE	714	1.0A	Mag/passbook R/W	ISO2/ISO2	300Oe	RS232/USB
GHE	714H	1.0A	Mag/passbook R/W	ISO2/ISO2	2750Oe	RS232/USB
GHE	505C,206D	1.0A	Mag/passbook R/W	ISO1/ISO2/ISO3	4000OE	RS232/USB

SPECIFICATION			
Mag Card standard	ISO7811/7812		
IC Mag Card standard	ISO7816		
Reading method	F2F(FM)		
Track	Track I	Track II	Track III
	ISO II (IATA)	ISO II (ABA)	ISO III (MINTS)
Bit per Inch	210 BPI	75/210 BPI	210 BPI
Encoding Capacity	76 byte (7bit)	37 byte (5bit)	104 byte (5bit)
Card Thickness	PVC : 0.76 ± 0.08mm		
Card Feeding Speed	10 ~ 150cm/s (R) / 10 ~ 100cm/s (W)		
Passbook Feeding Speed	10 ~ 150cm/s (R) / 10 ~ 100cm/s (W)		
Lifetime	Reader/Writer ≥ 800,000 cycles		
Error Rate	Less than 0.5%		
Size	210mm (W) x 70mm (D) x 65mm (H)		
Weight	Appr.1~1.5kg		
Input Voltage	Lo-Co. (GHE series), DC + 5V ±5%,		
	Hi-Co. (GHE series), DC + 24V ±5%,%		
Reading Current	< 100mA		
Writing Current	Lo-Co < 100mA		
Storage Temperature	-20°C ~ +55°C		
Operating Temperature	-5°C ~ +50°C		
Storage Humidity	5% ~ 95% RH		
Operating Humidity	20 %~ 90% RH		

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S-MRW12

CHARACTER SET SPECIFICATION

Character Set I	ASC II	0	1	2	3	4	5	6	7	8	9	:	#	@	’	=
	HEX	30	31	32	33	34	35	36	37	38	39	3A	23	40	27	3D
ABA Code (Hex)		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E

Note:When you write ASCII character=and ‘ ,they will turn to be ABA code D and write to the magnetic stripe.

Character Set II	ASC II	0	1	2	3	4	5	6	7	8	9	:	#	@	’	=
	HEX	30	31	32	33	34	35	36	37	38	39	3A	23	40	27	3D
ABA Code (Hex)		0	1	2	3	4	5	6	7	8	9	A	B	C	D	D

So when reading out ABA code D and E from magnetic stripe, it will turn to be ASCII character’

Note:When you write ASCII character=and ‘ ,they will turn to be ABA code D and write to the magnetic stripe.

Character Set III	ASCII	0	1	2	3	4	5	6	7	8	9	:	#	@	’	=
	HEX	30	31	32	33	34	35	36	37	38	39	3A	23	40	27	3D
ABA Code (Hex)		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E

So when reading out ABA code D and E from magnetics tripe, it will turn to be ASCII character=.

Character Set VI	ASCII	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>
	HEX	30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E
ABA Code (Hex)		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E

CARD STANDARDS

Encoding density: 210 BPI (track I/3), 75/210 BPI (track 2)

Encoding capacity: Track I (Less than 76 byte), Track II (Less than 37 byte), Track III (Less than 104 byte)

Data: ISO 1: Less than 76 byte, ISO 2: Less than 37 byte, ISO 3: Less than 104 byte