

Smart Mag DC

The world's first portable handheld magstripe reader



The Smart Mag DC is a data collection reader available in fixed mount and portable versions. The portable version is especially convenient for collecting attendance at training classes. The fixed mount version can be wall mounted for time and attendance applications, and is available with POE.

Features & Options

- Programmable LEDs
- Character masking (insertion & deletion)
- Tracks 1, 2 or 3
- 5V, 12V, or 24V operation
- Networking
- Good read beep
- Power over ethernet
- Weatherproofing
- Portable version available

Interfaces

- Rs232
- TCP / IP
- Rs422
- USB



Specifications

Magnetic Stripe:	Tracks 1, 2 or 3 (high or low density / high or low coercivity)
Reading Direction:	Bi-directional
Interfaces:	Rs232, Rs422/485, TCP / IP, USB
Good Read Beep:	Programmable
Slot Width:	0.050" (1.27mm)
Power Consumption¹:	5V 150mA typical 250 max / 12V 90mA typical 140 max / 24V 45mA typical 80 max / POE 90mA
Material:	Black polycarbonate / Noryl (chemical resistant case) (optional)
Dimensions:	4.6" L x 2.4" W x 1.4" H (11.68cm L x 6.10cm W x 3.56cm H)
Weight	7oz (198.5g)
Read Height:	.4" standard (1.02cm) / .465 (1.19cm) (optional)
Indicators	2 programmable LEDs
Temperature	-40°C to +85°C
Standard Wiring (Fixed):	3ft (91.5cm) cable with DB9 female (RS232), flying leads (RS422) or RJ45 (TCP / IP) / 3ft cable for relay
Standard Wiring (Port.):	3ft cable with jack
Memory:	128K standard / 512K (optional)
Battery Life (Port.)	6 hours

¹5V DC readers have a voltage tolerance of +/-5%.
12V DC readers may be operated from 8VDC–15VDC.
24V DC readers may be operated from 15V DC–30V DC.

Wiring

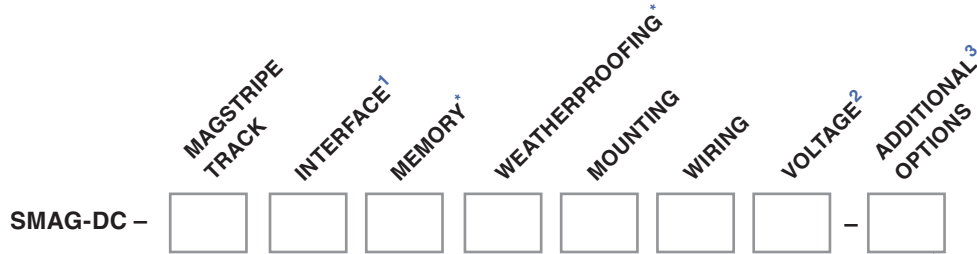
Wiring Connections for various Interfaces.

Rs232 Interface

Red +VDC
Blue GND
Green Reader Transmit
Yellow Reader Receive

Rs422 Interface

Red +VDC
Blue GND
Green Reader Transmit +
White Reader Transmit -
Yellow Reader Receive +
Orange Reader Receive -



*Options at additional cost ¹TCP / IP additional cost ²12V, 24V & POE additional cost ³Noryl additional cost

MAGSTRIPE TRACK

- Track 2 – 2
- Tracks 1 & 2 – 1
- Tracks 2 & 3 – 3

INTERFACE

- Rs232 – S⁴
- Rs422 / 485 – 2⁴
- TCP / IP – C
- USB – U

MEMORY

- 128K – 1
- 512K – 5

WEATHERPROOFING⁵

- No weatherproofing – 0
- Weatherproofing – W

MOUNTING

- #6 – 6
- 3mm – M
- Portable units – 6⁶

WIRING - FIXED MOUNT

- Rear – R
- Side – S

WIRING - PORTABLE

- Internal battery (portable) – I
- Side internal jacks (portable) – J
- Internal battery / External AC – A

VOLTAGE - FIXED MOUNT

- 5V DC – 5
- 12V DC – 2
- 24V DC – 4
- POE – P

VOLTAGE - PORTABLE

LEAVE BLANK

ADDITIONAL OPTIONS

Noryl (chemical resistant case) – N⁷

Specify one letter for each additional option. Leave blank if no additional options are desired.

⁴Serial units may be reprogrammed for network / protocol mode.

⁵Weatherproofing not available with portable readers..

⁶Portable units do not have mounting inserts. When ordering portable units, always specify a #6 for the mounting.

⁷Only available with fixed mount units.

Examples

Examples of ordering codes for Smart Mag DC in popular interfaces.

Rs232

SMAG-DC-2S1W6R2

Smart Mag DC with:

- Track 2 – 2
- Rs232 – S
- 128K Memory – 1
- Weatherproofing – W
- #6 Mounting – 6
- Rear wire exit – R
- 12V DC supply – 2

TCP / IP

SMAG-DC-2C5W6R2

Smart Mag DC with:

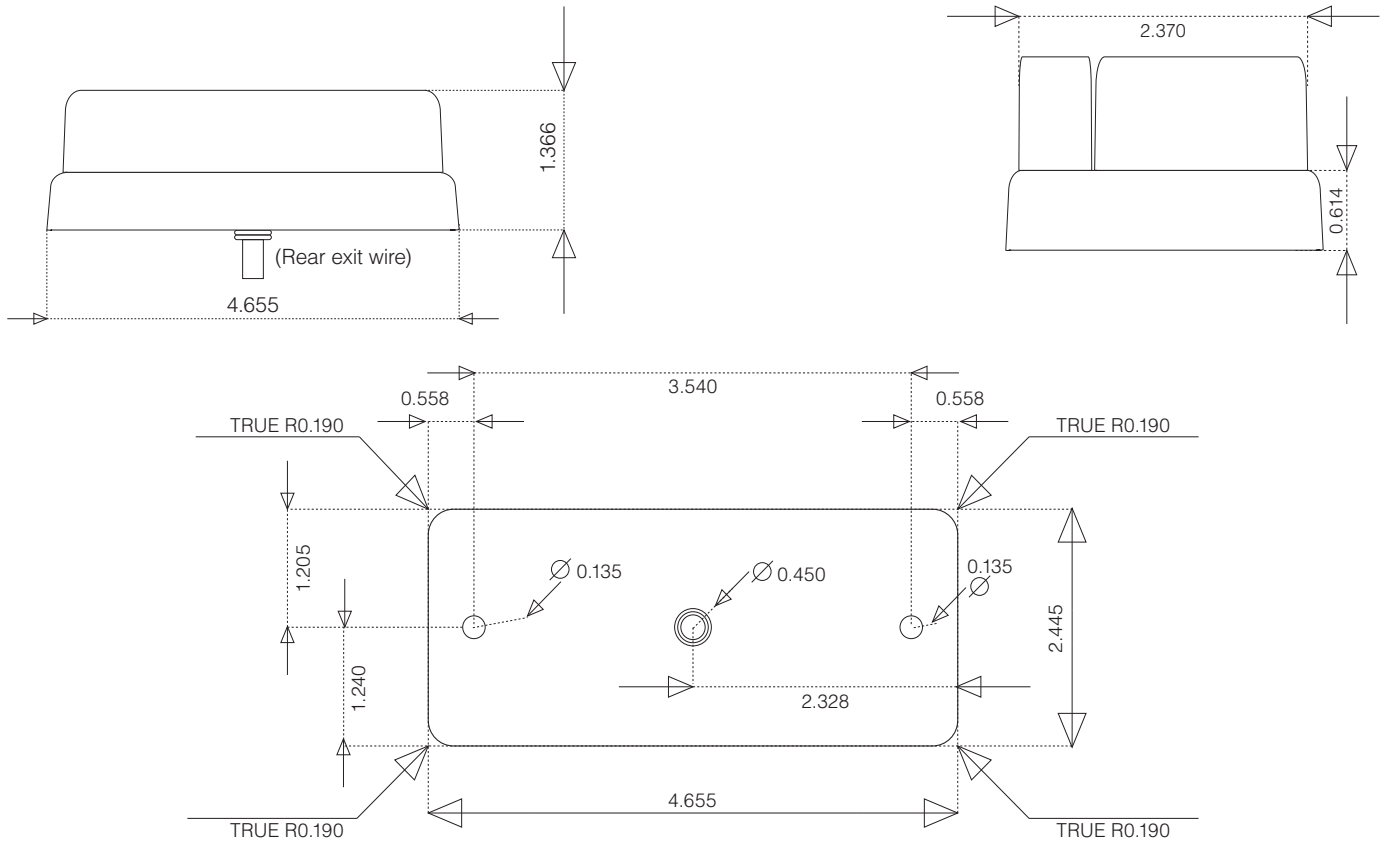
- Track 2 – 2
- TCP / IP Interface – C
- 512K Memory – 5
- Weatherproofing – W
- #6 Mounting – 6
- Rear wire exit – R
- 12V DC supply – 2

Rs232 Portable

SMAG-DC-1S106I

Smart Mag DC with:

- Track 1 – 1
- Rs232 – S
- 128K Memory – 1
- No weatherproofing – 0
- #6 Mounting – 6
- Internal battery – I



Notes for Ordering Smart Mag DC

POWER

DC series readers are powered with 5VDC. 12VDC and 24VDC are optional. Readers can be ordered with a side wire exit or rear wire exit. Power pigtailed and an AC adaptor can be provided for all 12V and 24V readers that are ordered with flying leads. Custom wiring is available for most configurations.

WIRING

Standard wiring for 5V RS232 and all RS422 readers is a 3' cable with flying leads. 5V RS232 readers can be ordered with a DB9 connector and power wired to one of the pins. 12V and 24V RS232 readers contain a 3' cable with a DB9 female connector, and a power pigtail for connection to an AC adaptor; which is included. Standard wiring for TCP readers is a 5' cable with a RJ45 jack and a RJ45 coupler. Standard wiring for USB readers is a 6' cable with a USB type A plug for direct connection to a PC.

PORTABLE

Portable DC readers can be ordered with a DC power jack on the side, an internal 9-volt battery housing, or both. When ordered with a DC power jack, you can connect an AC adaptor for power, or connect a 9 volt battery using a short adapter cable. The AC adaptor and cable are provided. If ordered with the internal 9 volt battery housing, the reader is powered by an internal replaceable 9-volt battery. Readers may be ordered with both options, allowing use with either the internal battery, or AC adaptor. All portable versions contain a jack for serial communications and a serial cable is provided.

For custom wiring or firmware contact IBC.