SpaceLogger.S10

- **Stand-alone RS232 serial data logger**
- **Data sampled and time-stamped**
- **SD or MMC Card for high capacity data storage in easily removable and transferable format**
- **Option to record status of two switches**
- **Simple to configure for wide range of devices**
- **Compact, economical and robust design**
- **Low power consumption**
- **Stored data files simple to read with standard PC office software**

Overview

The SpaceLogger.S10 is a versatile serial data logger for sampling RS232 data.

Data is stored on a removable memory card, enabling remote data logging without the need for direct connection to a PC. After logging, the memory card can be simply inserted in a card reader, to view and analyse the data on a PC; no special software is required.

Each data record is date and time-stamped when it is stored. A new file is generated for each day's data. The default file format is .CSV; other file extensions may be specified.

To configure the SpaceLogger.S10 for a wide range of devices with RS232 output, set up includes defining the start and end characters for each data sample, baud rate, sample rate, file name format, handling of un-printable characters, and the option to disable time-stamping and data sampling (to log all data).

The SpaceLogger.S10 may be set up to output RS232 data as it is input or as logged. This enables connection to a PC, display or other device. Also, the contents of a file on the SD card may be set to output on start-up; this file could contain a command to the sensor, for example.

The status of two switches to ground may also be added to each data record.

The unit records data to an SD or MMC card. These cards are available with up to 2GB capacity for long term data logging.

The SpaceLogger.S10 is ideal for field data acquisition due to its low power consumption and high capacity data storage.

Applications

Data acquisition from devices, instruments and sensors outputting RS232 data, such as:

- ✓ Environmental sensors – wind speed & direction, temperature, humidity. pressure, noise, pollution etc
- ✓ GPS & other NMEA devices
- ✓ Weighing balances & scales

More SpaceLogger Models

SpaceLogger.T10 – simple RS232 data recorder (no sampling or time-stamping)

SpaceLogger.A10 – 2 channel analogue 4-20mA data logger

SpaceLogger.W10 – for logging of wind speed & direction data from WindSonic & WindObserver wind sensors & MetPak II weather stations

SpaceLogger.D10 – for logging of cycle records from medical decontamination devices

OEM options and customised versions of all SpaceLogger are available. Please contact us for more information.

Contact Us

e-mail:
Tel:
Fax:
Website:

SpaceLogger.S10 Specification

Physical	Dimensions	Width: 67 mm Depth: 67 mm Height: 28 mm (excluding optional rubber feet)
	Weight	75g
	Enclosure material	GP ABS (UL94-HB) plastic and acrylic
I/O Capability	Transmission standard	RS232 compatible, 8 bits and no parity
	Transmission speed	9600 Baud (default) or selectable from 115200, 57600, 38400, 19200, 4800, 2400, 1200, 300 or 110 Baud
	Wire acceptance	0.32 to 0.65 mm diameter (AWG 28 to 22)
Switch Inputs	Max input voltage	Must not exceed 3V
	Current out	7µA max
Data Storage	Data Storage Card	Removable SD, MMC or MMC mobile card
	Data Capacity	2 GByte (max)
	File System	FAT16 or FAT32 with 8.3 file names. Sector size 512 Bytes
	Data Sample	Records only the data between specified start (STX) and end (ETX) characters
	Data logging interval	Default is to log every data sample output by the device/sensor or select logging interval from 1 to 60 seconds
Audible / Visual Indicators	LED Indicators	Green: Ready to record data Red: Writing data to SD card
	Audible Bleeper	Status alert
Real Time Clock	Accuracy	±40 ppm at 25 ºC
	Backup battery	CR2032
Power	Power requirement	7 to 30 Vdc
	Current at 12Vdc	10 mA typical
	Connection	1.3 mm centre pin DC connector, or Screwless terminals (0.32 to 0.64 mm diameter conductors)
Environmental	Temperature Range	Operating: -25 ºC to +70 ºC Storage: -40 ºC to +70 ºC
	EMC	CE marked - EMC directive 2004/108/EC FCC/CFR 47: Part 15:2004
Guarantee	Period	1 year

The manufacturer reserves the right to amend the specification and therefore the information in this document may be subject to change.

Example of SpaceLogger.S10 Application