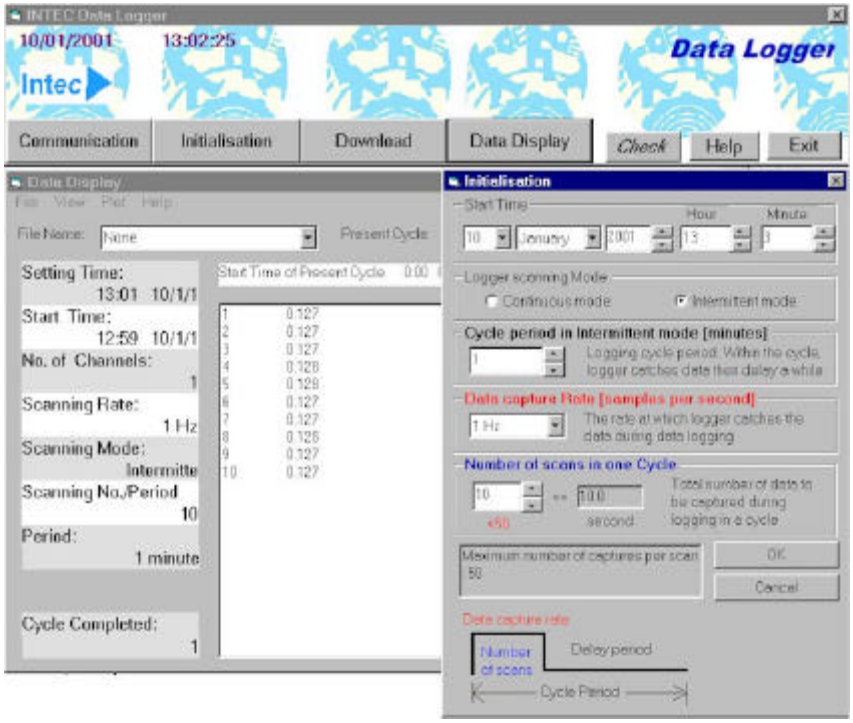
Intec

SDL-1 Single Channel Standalone Voltage Logger

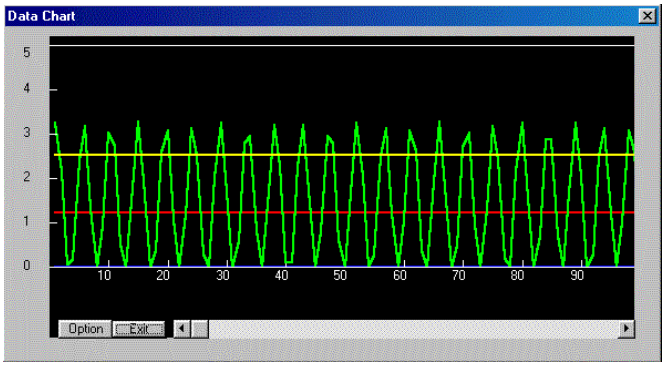
SDL-1 is a high performance single channel standalone voltage logger. Working on its own, the logger can measure voltage and store the value into its on-board memory for future retrieval.

The logger is initialised by a Window 95/98 compatible software via the serial port of a personal computer or a portable computer. Once it is initialised, the logger can be disconnected from the PC and deployed to the designated locations. The logger will only measure voltage, therefore, a suitable sensor is need in the end application. To accommodate the use of external sensor, the logger provides a voltage excitation output (+5V, 50 mA).

After the logger enters a logging session, the SDL-1 can be programmed to sleep for a pre-set period of time before the 1st measurement is taken. After this, it will automatically measure voltage and store that in the on-board memory at the preset interval. Two logging modes are available: continuous mode and intermittent mode. In the first mode, the logger will capture data at a regular interval. In the latter, the logger will capture data, then stop. After a preset period of time, data logging will start again.



After the data logging session is completed, the logger is re-connected to a computer and temperature data stored in the logger are downloaded into a PC and saved as a DOS text file. The file can be import into spreadsheet programs such as Lotus 123 and Microsoft Excel for further analysis.



- Cost-effective standalone voltage logging solution
- 9-pin female D-type RS232 connector
- For 486, Pentium I to III PCs
- Initialisation and data download via RS232 port of PCs. Windows 95/98 driver for initialisation and download
- Download data file format: DOS delimited text format ready for spreadsheet applications
- Stand-alone voltage logging with measurement accuracy of 1 mV. Voltage input range: 0-4.096 V
- Excitation voltage output: 5V at 50mA
- On-board data storage capacity: 4096 data points
- Two logging modes: continuous and intermittent (cycle period: 1 minute to 2 hours in 1 minute step).
- Programmable logging rate at1, 5, 10 and 20 Hz
- Programmable sleep time before logging
- Connection to the logger through an 8-pin mini DIN female socket
- Slim size: 100mm by 60mm by 25 mm.
- Current consumption during sleep: 0.8 mA.. Current consumption during logging: 4 mA. (note: no drain on the excitation output)
- Use a PP3 9V battery
- Operation temperature range: 0 to 70 deg C