

**ADVANCED PHOTONICS INTERNATIONAL, INC.
54 PLYMOUTH ROAD, WHITE PLAINS, NY 10603**

**FIELD DATA-LOGGER
MODEL DL- 203- SERIES**



APPLICATIONS

- **FIELD MEASUREMENTS**
- **ENVIRONMENTAL MONITORING**
- **INDUSTRIAL PROCESSES**

FEATURES

- **PORTABLE, BATTERY OPERATED**
- **12 ANALOG INPUTS**
- **MICRO-COMPUTER BASED FULLY PROGRAMMED**
- **2 RS-232C INTERFACE**
- **ENVIRONMENTALLY PROTECTED**

ADVANCED PHOTONICS INTERNATIONAL, INC. presents the ruggedized field portable datalogger expressly designed for unattended storage of measurement data. The Model DL-203 collects data from both, multiple RS-232C and parallel inputs. The instrument is fully programmed to collect data either in hyper-terminal format or parallel inputs. The software is offered with optional programs to optimize data handling, storage and downloading to external computer.

The data logger is housed in a nema 12 equivalent enclosure, sealed to the environment. It is supplied with the appropriate cable to connect the instrument to the measurement instrument(s) and to the downloading computer.

The Model DL-203 can operate off internal replaceable battery or be supplied with a connector to external input or optional power pack.

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DATALOGGER

The Model DL -203 integrates a Micro-processor and software control which enables the collection of data from the serial and parallel ports. The DL-203 incorporates switches on the instrument to control the following operating functions and options:

1. Type and number of inputs
2. Measurement repetition rate
3. Averaging and number of samples

The instrument incorporates a “sleep mode” which reduces power consumption between readings.

The datalogger is supplied with a downloading program which allows transferring data from the DL-203 to an external computer. The following options are offered to the basic download program:

1. Quicklook Graph of collected data Vs local time
2. Transfer of data to a spread sheet program
- 3 Set of local time

The datalogger can be supplied mounted in a protective environmental enclosure which is large enough to house most hand held measurement equipment. An auxiliary box can also be supplied to house the necessary power sources.

The data logger can be used to convert a simple measurement system into a complete environment measurement system capable of measuring such parameters as illuminated sun light in the air as well as measuring many underwater and air parameters.

SPECIFICATIONS

DISPLAY UNIT	DESCRIPTION
Model:	DL-203
Design:	Portable Micro-Processor controlled
Inputs Serial	1 hardware RS-232C (max 38.4 k baud) 1 software RS-232C (max 19.2k baud)
Inputs Parallel	11 @ 12 bits ; 8 @ 8 bits
Analog Input Voltage	0-5 volt (accepts external ref.)
Max Sampling Rate	3200 12 bit: 6400 8-bit
Capacity	2mb (program and data) flash E-prom
Digital Lines	16 I/O, plus 8 inputs only
Time	Real time clock (hardware)
Minimum current	smaller than 100 micro second
Peak Current	150mA
operating temperature	-40C to+85C
Relative Humidity	0-95 % non condensing
Power Supply	5.5 to 18.5volts
Dimensions	5.2” x 5.2”x 2.2”
Weight	Approx. 1lb

The configuration of the datalogger can be modified by changing the software to meet other applications. Please contact our engineering staff with your specific requirements.

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