



# SM96TERM DATA TRANSFER PROGRAM FOR SM96, SM99, SM199 PUMP CONTROLLERS

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Manufactured in Australia by Alian Electronics Pty. Ltd.  
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also visit [www.alianelectronics.com.au](http://www.alianelectronics.com.au) for other pump control products

SM96 Controller - Downloads  
Port: COM 1 **SM96 PUMP CONTROLLER - ACTIVITY LOG**

UNIT I.D.: 10002 SOFT VER: 1 TYPE: 1 LOG READ: 3/25/2003 8:05:32

**Adaptor Ready** PUMPING TIME: 290 FILENAME:

	PUMP ACTIVITY COUNTS						Last	Running
	0-4hrs	4-8hrs	8-12hrs	12-16hrs	16-20hrs	20-24hrs	24hr total	Total
PUMP CYCLES	0	0	0	0	0	0	0	514
FLOOD ALARMS	0	0	0	0	0	0	0	0
TANK DRY ALARMS	1	0	0	0	0	0	1	9
MUTE SW RESPONSE	2	0	0	0	0	0	2	3

**HOURLMETER LOG**

	Hours	Minutes
HOURLMETER, PUMP 1:	43	30
HOURLMETER, PUMP 2:	0	0
LAST POWER INTERRUPTION:	2280	50

CUSTOMER ADDRESS [Optional]

COMMENT

**GOOD DOWNLOAD** Download Save Load Exit

## GENERAL DESCRIPTION:

The SM96TERM software can download and store data log information from the SM96, SM99, SM199 pump controllers. It requires a working RS232 port on a PC into which a special infrared receiver is connected. This Infrared device is part of the SM96TERM kit. Modern PC's will require the additional USB to RS232 adaptor, which is also part of the SM96TERM kit.

To use this application, the operator would first run the program in their PC and look for the green '**Adaptor Ready**' message which tells the system that the infrared receiver is connected ok. Then the receiver is held to within 500mm of the front of the Pump Controller when the Data Dump button is pressed. The information takes about one-second to transfer.

Data integrity checks confirm the accuracy of the transfer. If there has been any corruption of this transfer, the message '**Bad Download**' would appear on the PC screen.

A full copy of the data log is then transferred into the program via this non-contact link. The data may then be viewed or saved to the PC hard drive for later interpretation.

Pump activity is recorded in 4-hour blocks which shuffle across and add to the Running Totals. In this way the operator can have a close look at recent events as well as the long-term effectiveness of the pumping system.

The program automatically works out whether the pump controller is a single or dual pump unit and varies the display accordingly.

Customer address data and user comments may be attached to each data dump before saving the information to the hard drive.

Because the data transfer takes place via a non-contact optical link through the clear cover of the pump controller, it is safe for non technical staff to perform the transfer as there is no exposure to dangerous voltages.



A supplementary article is available on how this information may be collated and interpreted for widespread installations of the pumping systems. For example a coastal town may have several hundred SM96 systems fitted to each home for sewage pumping. This data logger program is a valuable resource in learning about the usage and effectiveness and of an entire system.

See 'Notes on Processing Data collected by the SM96, SM99 & SM199 Controllers' on the Alian Electronics web site.

The **SM96TERM KIT** consists of:

- The SM96TERM program on a CD
  - The Infrared Receiver and RS232 patch cable
  - A USB to RS232 adaptor
  - Installation and setup instructions.
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