

GPSE SkyLog 3001 Weather Station

User Manual



Skylog 3001 Weather Station, Version 1.1

GPSE

Because It Should Be Fun

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1.0 Getting Started

1.0 Introduction

Thank you for purchasing a SkyLog 3001 weather station.

The SkyLog 3001 is a personal computer (PC) based weather station that simultaneously records, and automatically stores in memory, readings of air, soil, grass temperatures, relative humidity, solar radiation, wind speed, wind direction, barometric pressure, leaf wetness sensor and rain fall. The SkyLog 3001 can be left permanently connected to a PC displaying real time weather conditions, using the SkyView 3001 Windows™ software, or it can be left in the field recording weather conditions, independently of a PC. The data from the station can also be down loaded through a modem or a radio link.

1.1 Packing List

- GPSE SkyLog 3001 Weather Station 1
- GPSE SkyView 3001 Software Installation Disk 1
- User's Guide 1

2.0 Installing The SkyLog 3001 Station

2.0 General

The following sections will explain the installation and operation of the SkyLog 3001 station.

2.1 Station Features

The main features of the station are illustrated below.

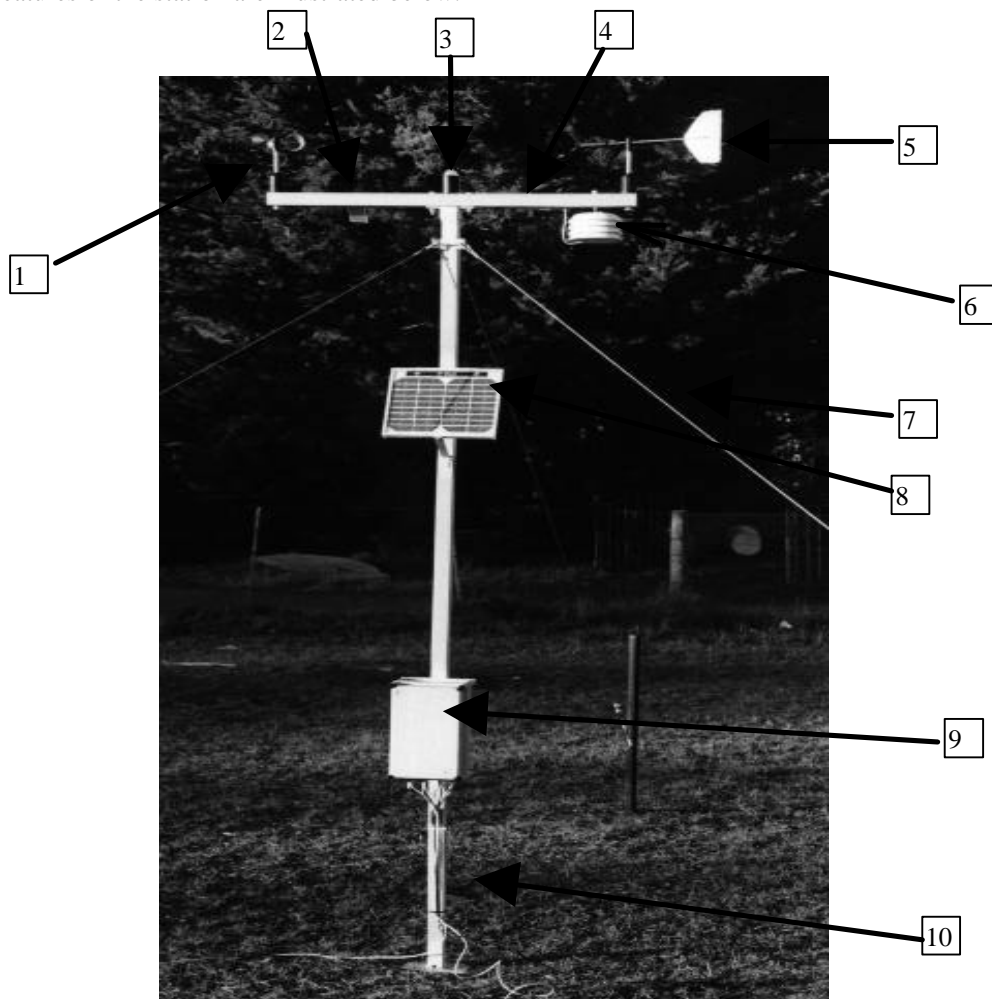


Figure 1 Station Features

Features :

1. Anemometer
2. Leaf Wetness sensor
3. Radiation sensor
4. Cross beam
5. Wind vane
6. Relative Humidity & Temperature sensors in Radiation shield
7. Guy rope
8. Solar Panel
9. Station computer box attached to the mast
10. Ground Temperature probe

Please note not all of the sensors shown above may be installed on your station.

2.2 Setting Up The Station

Where To Locate The Station

For best results the station should be located in an area with good air flow and few obstructions which could shade the solar radiation sensor or interfere with the anemometer and wind vane. Be careful not to locate the station above objects such as dark roofs which get warm during the day, heat from these objects could cause errors in the readings from the temperature and relative humidity sensors.

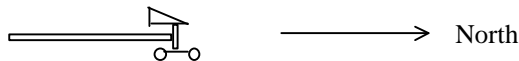
Mounting The Station On a Mast

The correct method for mounting the station on a mast is shown in Figure 1.0.

If you are not using GPSE's mast ensure that the cross beam U-clamp bolts are tight enough to prevent the station from turning around the mast in high winds. The anemometer and wind vane should ideally be mounted in such a way that optimum air flow past the sensors.

Orienting The Wind Vane With North

To align the wind vane with North rotate the vane so that it is in line with the beam on which the anemometer and wind vane are mounted. Then orient the beam so the anemometer and wind vane end faces North, as shown below.



The following describes the procedure for setting up the station for the first time.

1. Erect the station on an appropriate mast as described above.
2. Orient the wind vane and anemometer toward North as described above.
3. Now connect the serial cable from the station to a spare RS232 serial port on the PC. Make a note of the port number as you will need this later.
4. The station is designed to operate from a +12V dc power source. There are two wires coming from the serial connector to the PC. The red wire is the positive terminal and the black one is ground.

2.3 Installing The SkyView 3001 Program On Your PC

1. When in Windows 3.1, 95 or 98 close all open applications.
2. Insert the SkyView 3001 program disk into a floppy disk drive.
3. In Windows 3.1 select the **Run** option in the **File** menu and type **A:\Setup** at the prompt, press Enter. Or in Windows 95 : Select the **Run** option in the **Start** button and type **A:\Setup**. If you are installing from B drive then type **B:\Setup**.
4. Follow the instructions on the screen.

2.4 Running The SkyView 3001 Program

In Windows run the SkyView 3001 program by clicking on the **Weather** icon.

2.5 Setting The Preferences

If you are using the station for the first time you will need to tell the SkyView 3001 program some information about the station. This is done in the **Preferences**. To set the preferences select the **Preferences** option in the **Edit** menu. The window shown below will appear.

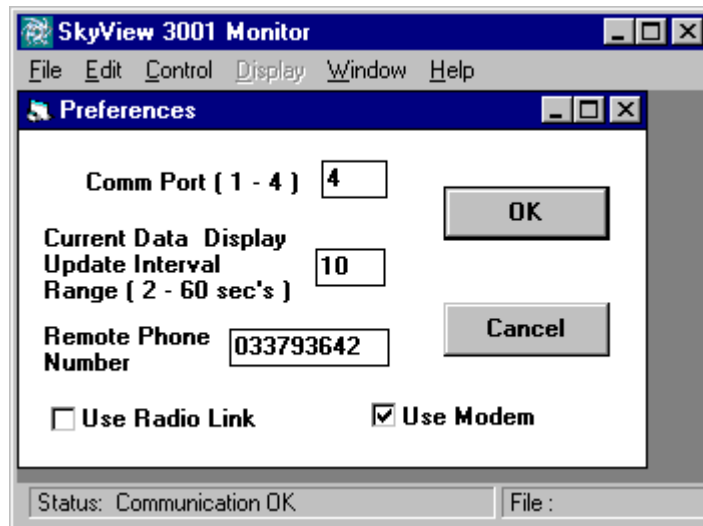


Figure 2 Preferences Window

- Select the COM port to which the station is connected.
Click on the **Comm Port (1 - 4)** box and type the number of the COM port the station is connected to.
- Select the interval between updates of the current readings displayed on the PC.

Click on the Current Data Display Update Interval Range (2 - 60 secs) : box and type the desired up date interval between 2 and 60 seconds. This interval determines how often the program will update the readings from the station on your PC when you are viewing live readings. Generally and interval of 30 seconds is appropriate. When you are happy with the values click on the OK button.

3.0 The SkyView 3001 Program

3.0 General

The SkyView 3001 program is used to control the station and process readings from it. It is also used to transfer the readings stored in the station to a PC and then allow them to be stored on the PC for later use. Because the station has its own data logger it can either be left continuously connected to the PC via a spare RS232 serial port on the PC or it can operate stand alone. The station gathers and stores weather readings in its internal memory, even when the PC is turned off or being used for other tasks. Using the SkyView 3001 program live weather readings can be graphically displayed on the PC screen in real time or readings stored in the station can be transferred to the PC for analysis.

3.1 The SkyView 3001 Main Window

The main window of the SkyView 3001 program is shown below. When the SkyView program is run with the station connected to the PC live readings can be displayed, at the bottom of the window, as shown below. To display live readings select the **Current Data** option in the **Window** menu.

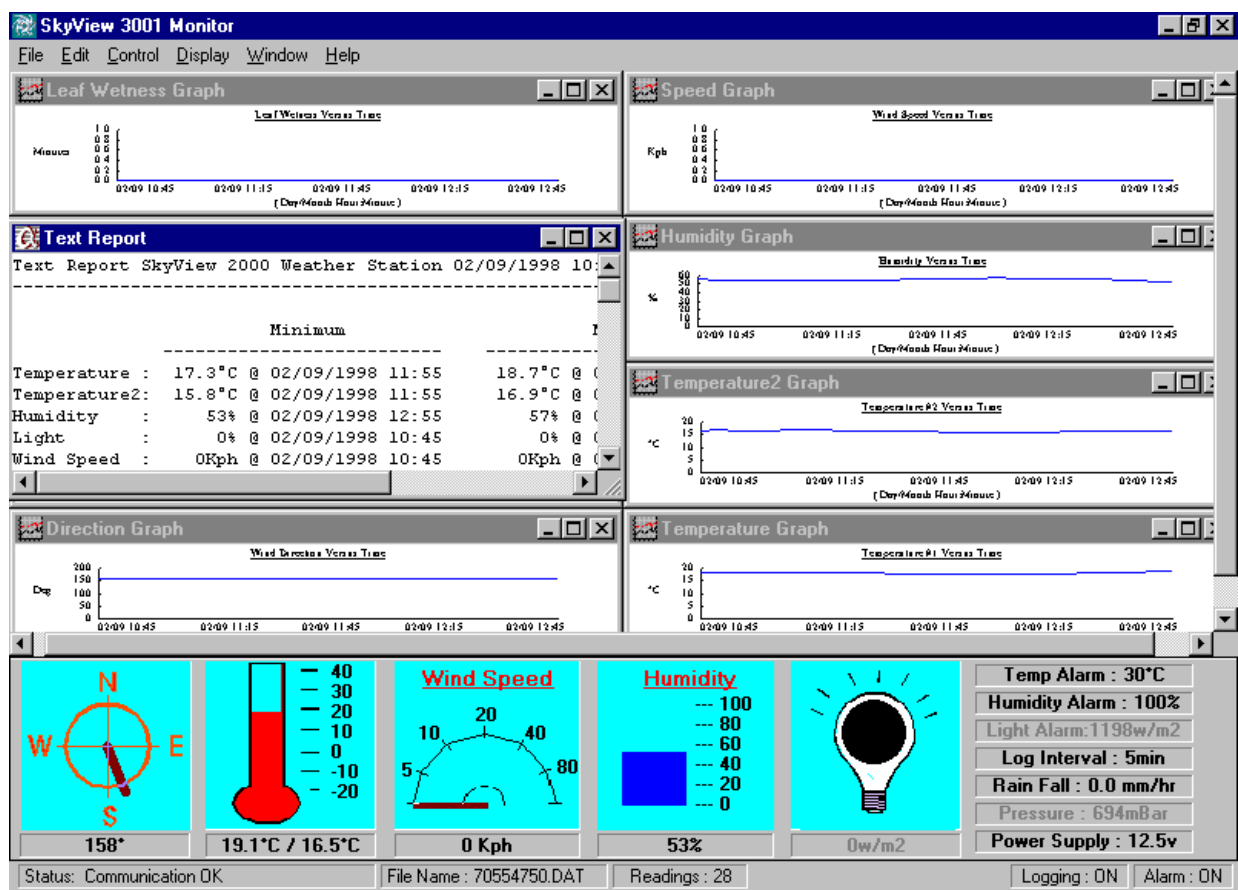


Fig 3 SkyView 3001 Main Window

The area above the live readings is used to display graphs of weather readings transferred from the

station or loaded from disk. A text report is shown in the upper left hand window while graphs of air temperature, wind speed and rain fall etc are also shown.

The current alarm thresholds for temperature, relative humidity, sky brightness and battery voltage as well as the current logging interval and accumulated rain fall and barometric pressure are displayed on the right hand side of the live readings. The bottom line of the main window displays the current status of the program and station. These items are explained in the following :

Status : Indicates the current status of the serial link between the station and PC.

Communications OK	- The serial link is operating correctly.
Communications Error	- The serial link is not operating.
Communication In Progress	- The SkyView program is communicating with the station.
Loaded OK	- Indicates a data file has been successfully loaded from disk or the station.
No Data	- There is no data to be worked with.

File Name : This is the name of the data file in use. When data is transferred from the station to the PC a file name, consisting of a random number, is automatically assigned as a temporary file name. A new name can be assigned to the data file by using the **Save Data As** option in the **File** menu.

Readings : The number of readings transferred from the station or contained in the data file loaded from disk.

Logging : **ON** Indicates the station is logging readings and storing them in memory.
OFF Indicates the station is not logging readings.

Alarm : **ON** Indicates the alarm has been triggered.
OFF indicates the alarm has not been triggered.

Current Readings

If the station is connected to a PC then the current readings from the sensors can be displayed at the bottom of the screen as shown in Figure 3. The readings from the temperature probes are displayed in the second window from the left. The gauge and first numerical value represent the air temperature probe, on socket 1, while the temperature reading from the ground temperature probe is displayed numerically to the right of the air temperature reading. The readings for sensors that are not connected to the station will be random and should be ignored.

3.2 Programming The Station To Log Readings

Once the station has been set up and the SkyView 3001 software installed the station must be programmed to start taking readings.

1. Ensure that the station serial link is connected to the PC.
2. Run the SkyView 3001 program in Windows.
3. Ensure the station is turned on.
4. Clear the old readings from the station memory. To erase the old readings from the stations memory select the **Clear Log** option in the **Control** menu.

Note : This step is only necessary if the station has been logging and has readings stored in its memory. Before erasing the old readings in the station be sure you have transferred them to the PC, see section 3.4.

5. Set the desired logging interval. In the **Control** menu select the **Logging Interval** option and enter the desired delay in minutes between readings (1 to 255), then press enter.
6. Program the station to begin logging readings. In the **Control** menu select the **Start Logging** option. The

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station will begin storing readings from the sensors at the selected logging interval.

3.3 Viewing Live Readings From The Station On Your PC

To view live weather readings from the station select the **Current Data** option in the **Window** menu. When the station is connected to the PC and turned on live readings will be up-dated at regular intervals, as specified by the **Current Data Display Update Interval** option in the **Preferences** option.

3.4 Transferring Readings From The Station To Your PC

To transfer readings stored in the station to your PC the following steps should be followed :
In the **File** menu select the **Upload** option.

It may take a few seconds to transfer the readings if the station memory is almost full. When all of the readings have been transferred to the PC from the weather station a new data file will be automatically created with a name composed of random numbers. The readings should then be saved to disk under a new file name by selecting the **Save Data As** option in the **File** menu. The number of readings transferred is shown in the status line at the bottom of the main window. Data files can also be saved to disk as spreadsheet compatible files, see section 3.6. Graphs of the readings along with a text report can be viewed using the Display menu, see section 4.0.

3.5 Saving Readings To Disk

If it is desired to re-load the data file into the SkyView 3001 program at a later date the data file should be saved to disk as follows : In the **File** menu select the **Save Data As** option and enter a new file name for the data file. Then press Enter.

3.6 Saving Readings As A Spreadsheet Compatible File

To save the readings to disk in a file which can be loaded into popular spreadsheet packages such as Excel the following steps should be followed : In the **File** menu select the **Export** option and enter a new file name for the data. Then press Enter. The data file will be in comma delimited format or CSV, in the spreadsheet package load the data file in this format.

3.7 Saving The Text Report To Disk

Each time a new set of readings is transferred from the station to the PC a text report is automatically generated. This text report is then saved to disk along with the data automatically. If it is desired to have the text report as a separate text file which can be loaded into word processors and editors then use the **Save Report** option in the **File** menu to save it to disk as a text file.

3.8 Loading A Saved File From Disk Into The SkyView 3001 Program

To load a data file that has already been saved to disk follow these steps :
In the **File** menu select the **Load** option and enter the name of the file you wish to retrieve at the prompt and press Enter.

4.0 SkyView 3001 Analysis Functions

The SkyView 3001 program provides many powerful functions which can be used for analysing readings from the station or loaded from disk. This section describes the various analysis functions and how to use them.

4.1 Text Reports

A comprehensive text report giving a summary of the minimum and maximum values, the total accumulated rain fall over the period of the report as well as a table of the actual readings can be viewed by selecting the **Text Report** option in the **Display** menu.

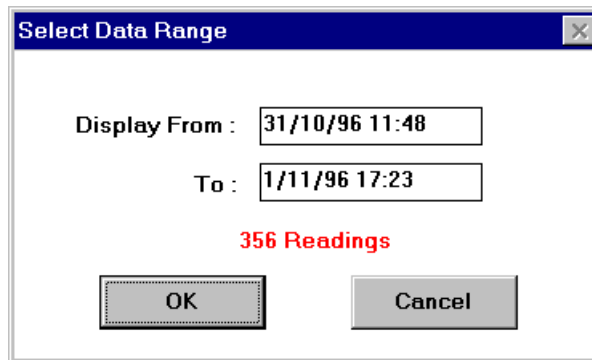


Figure 4 Text Report

The window above will appear. At the prompts enter the period you would like the report to cover, use the delete key to remove the default values and enter the desired values, the default is from the start to the end of the readings. An example text report is shown below.

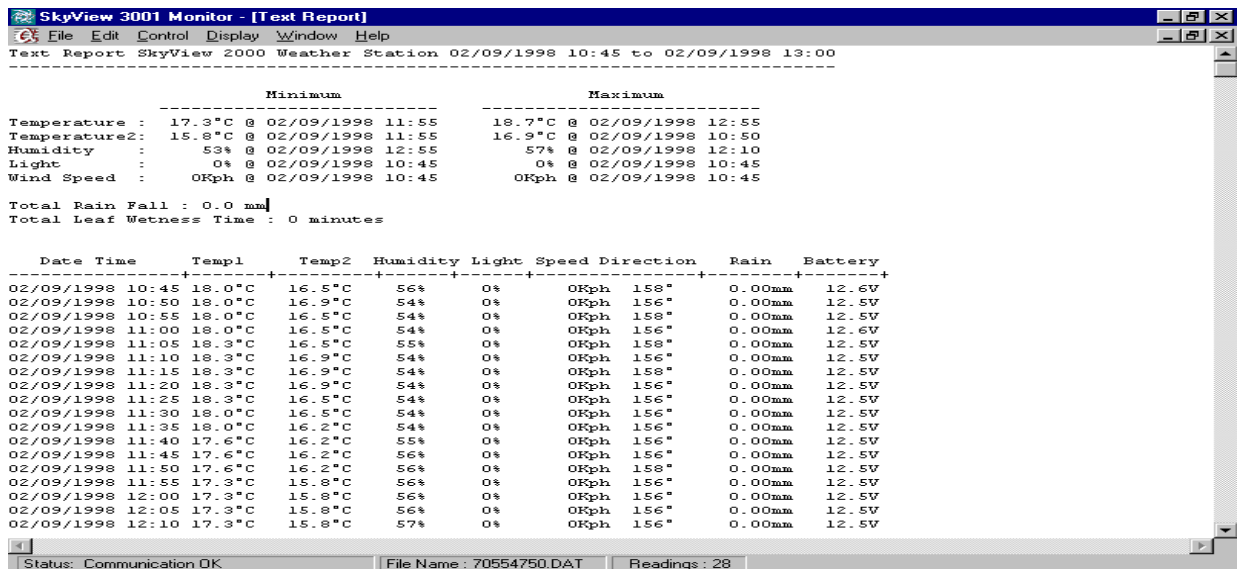


Figure 5 Example text Report

The uppermost line contains the period covered by the report 02/9/98 10:45 to 02/9/98 13:00 in this case. A summary of the maximum and minimum readings along with the dates and times at which they occurred and the total accumulated rain fall is displayed next. Finally the actual weather readings are displayed in a table. A text report can display a maximum of 500 readings, if there are more than 500 readings they will be truncated automatically. In addition parts of the report can be cut & pasted into other applications using the mouse and

Edit menu. To save a text report to disk as a text file select the **Save Report** option in the **File** menu.

Printing A Text Report

To print a text report select the text report window and then, in the **File** menu, select the **Print** command.

4.2 Graphing Weather Readings From The Station Or A Data File

Once a set of readings have been transferred to the PC from the station or loaded from a data file they can be graphed by selecting the desired graph option in the **Display** menu. At the prompt enter the desired period over which to view the readings and press Enter. An example temperature graph is shown in the Figure below.

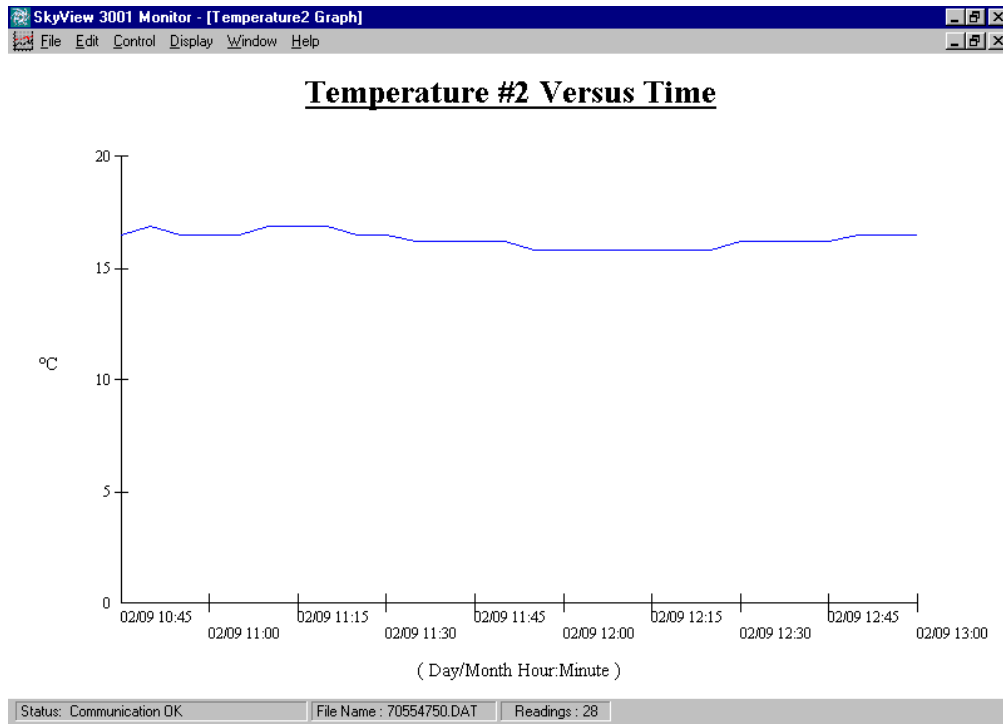


Figure 6 Temperature Graph

The dates and times to the right of each graduation, along the x-axis, belong to that graduation. Many different graphs can be displayed simultaneously by using the **Tile** option in the **Window** menu.

Printing A Graph

To print a particular graph select the desired graph window and then, in the **File** menu, select the **Print** command.

5.0 Station Specifications

5.1 Sensors:

Temperature Air, Soil

Range : -25C to +50C
Accuracy : +/- 0.5C (typ)

Relative Humidity

Range : 0 to 100% RH
Accuracy : +/- 5% RH 0 to 60% (Un cal), +/- 2% RH 0 to 90% (cal)
Linearity : +/- 0.8% (typ)

Solar Radiation

Range : 0 to 1500 W/m²
Resolution : +/- 1 W/m²
Accuracy : +/- 8%

Wind Speed

Range : 4 to 280 km/h (0.9 to 78 m/s)
Accuracy : +/- 5% (typ)
Start Speed : 6.5 km/h (typ)
Stop Speed : 4 km/h (typ)

Wind Direction

Range : 0 to 360 deg
Resolution : +/- 5 deg
Accuracy : +/- 5 deg

Leaf Wetness

Range : 0 to 100%

Barometric Pressure

Range : 800-1100mb
Resolution : 1mb
Accuracy : +/-10mb

Station Computer

Analogue inputs: 8 - Battery voltage, wind vane, leaf wetness, solar radiation, barometric pressure, relative humidity, ground temperature and air temperature

Digital inputs : 3 - Rain gauge, anemometer, spare - serial lead

Digital outputs : 2 - Alarm/spare, spare/modem/radio

Memory : 16384 bytes/channel. For eg., if 8 analogue inputs and 3 digital inputs are used and sample is taken every 60 mins, the station can store 62 days of readings.

5.2 System Requirements

The computer on which the system is to be used must have the following :

- IBM Compatible.
- 386 or higher processor running Windows™ 3.1 or Windows™ 95.
- At least 2mb of RAM memory and 1 mb of free disk space.
- VGA or higher graphics system.
- A floppy disk drive.
- Mouse or other pointing device.
- A fully compatible RS232 serial port.

6. Using The Modem

General

A modem is simply an accessory for your computer that lets your computer talk to other computers, in this case the weather stations computer, the way a telephone allows you to speak to other people. If you are accessing the station data from the remote location, tick the appropriate box how you would like to down load the readings - via a modem or a radio link. If it is through modem, type in the phone number you are dialling and click OK.

Attaching a Modem To The Station

To attach a modem to the station do the following :

1. On your PC save any work you have been doing and close all open programs, then ensure that both the power to the station and the PC is turned off. Also unplug both the PC and the station from the mains power.
2. With the modems power adaptor not plugged into a mains socket connect the small round plug to the modems power adaptor socket.
3. Now plug the modem serial cable on the Interface unit into the modem serial socket on the back of the modem.
4. Connect the flat grey telephone cable plug into a telephone (line) socket, this will be either the same socket your telephone is plugged into or a new line, plug the other end into the telephone line socket on the back of the modem.

Note

If you want to use the station modem on the same wall socket that your telephone is connected to you will need to use a special socket which can accept two telephones. These are readily available in most hardware stores or supermarkets.

5. Plug the modems power adaptor into a mains wall socket and turn the modem on using the button on the top of the lid.
6. Reconnect the PC and the station to the wall power. The turn on the PC.
7. Finally turn on the station using the switch on the station interface unit.

When you turn on the station you will see the RD and SD red lights on the front of the modem flashing on & off after a delay of approximately 20 seconds as the station sets up the modem. When the modem is correctly set up the following red lights on the modem should be on : HS TR MR AA. If HS is not on then you will need to run a terminal communications program in your windows program. In your communications program set the following parameters.

Speed : 9600 bps
Data bits : 8
Stop bits : 1
Parity : none
Terminal type : ANSI
Flow control : none

After setting up these, in the terminal screen type **atz** and hit return. Computer should respond to you by saying **What?** and your **HS** light should be on now. Close the terminal program now.

How To Call The Station

To call the station follow these steps :

1. In your communications package set the phone number to the number that the stations modem is connected to.
2. When you are connected to the station you should see the words Communication OK message at the bottom of the screen.
3. Once you are connected or “on-line “ with the station you can use the same commands in the usual manner. With one exception : you cannot read or send mail using the modem, this must only be done on the local PC connected to the station.

TERMS AND CONDITIONS OF SALES AND SERVICE

1. GENERAL

- 1.1 In these terms and conditions the "Supplier" means GPSE Limited.
- 1.2 All goods and services to be supplied by the Supplier will be supplied on these terms and conditions only. If the Customer orders goods or services, the Customer will be deemed to have accepted these terms and conditions. The only circumstance where any variation to these terms and conditions will apply is where the Supplier has expressly agreed in writing to that variation. Any terms and conditions of customer's order inconsistent with these terms and conditions are expressly negated. Any statement by the customer that the Customer's terms and conditions shall prevail is expressly negated.
- 1.3 Cancellation of or variations to an order will only be accepted if advised to the Supplier in writing. The Supplier will be entitled to invoice the Customer for all costs incurred by it as a result of cancellation or variation.

2. PRICES AND PAYMENT

- 2.1 Goods or Services will be invoiced at the price stated and do not include costs of customs agents, carrier fees, freight, insurance, tariffs, duties, taxes of any kind, imposts, assignments and other levies which are payable in addition where those costs are incurred by the Supplier. The Supplier reserves the right to alter the price without notice and the price may be different from the price quoted or stated. Prices do not include GST which is payable in addition.
- 2.2 Unless otherwise stated or agreed in writing by the Supplier, payment is to be made in full by the 20th of the month following the date of invoice however the Supplier reserves the right to require payment in cash on delivery.
- 2.3 The Customer may not deduct or withhold any amount (whether any way of set-off, counterclaim, retention or otherwise) from any money owing to the Supplier.
- 2.4 If the full payment for any goods is not made to the Supplier by the due date for payment, then Customer shall be in default and Customer shall at Supplier's discretion (and without affecting any other right the supplier may have), pay default interest, both before and after judgement, on any amount outstanding at the rate including GST stated.

The charging of default interest shall in no way imply granting or extension of credit by the Supplier to the Customer.

- 2.5 Except where otherwise advised any quotation is open for acceptance for 20 days from the date of quotation.

3. DELIVERY

- 3.1 The Supplier will endeavour to meet agreed delivery or completion dates but will not be held liable for, nor may the Customer cancel any order for late delivery or late completion.
- 3.2 All claims for errors or short delivery must be made to the Supplier within seven days of delivery.
- 3.3 Delivery shall be at the Supplier's premises and shall be deemed to have occurred as soon as the goods are ready for collection at the Supplier's premises.
- 3.4 If the Customer fails or refuses to take delivery of any goods, the Supplier may (without limiting any other right the Supplier may have) charge the Customer for any of the following expenses:
 - (a) handling charges for any unloading work carried out by the Supplier;
 - (b) storage, transportation, disposal of the goods or other additional expenses incurred in relation to the goods.

4. RISK

All risk in, and responsibility for insuring, goods supplied by the Supplier shall pass to the Customer on delivery.

5. OWNERSHIP

- 5.1 Title to any goods supplied by the Supplier shall not pass to the Customer until all amounts owing by the Customer to the Supplier in respect of those goods and all other goods have been paid.
- 5.2 The Customer agrees that until title passes in them to the Customer all goods supplied are held by the Customer for and on behalf of the Supplier as bailee and the Customer will store them in such a way that they are identifiable as the property of the Supplier.
- 5.3 If the Customer wishes to resell any goods before title to them passes to the Customer, the Customer may do so only by way of bona fide sale in the ordinary course of business and the Customer shall hold the proceeds of such sale on trust for the Supplier and shall account to the Supplier for such proceeds.

6. WARRANTIES

- 6.1 The Supplier will endeavour to pass on to the Customer the benefit of any manufacturer's warranties relating to goods or component parts of goods.
- 6.2 Except for such guarantees as cannot be excluded by virtue of the Consumer Guarantees Act 1993 except as expressly provided in terms and conditions, all warranties, descriptions, representations or conditions whether implied by the law, trade custom or otherwise, are, and all other liability of the Supplier, whether in tort (including negligence), contract or otherwise is expressly excluded to the fullest extent permitted by law. The guarantees implied by the Consumer Guarantees Act 1993 are expressly

- 6.3 Unless otherwise stated, all goods supplied by the Supplier comply, at the date of delivery, with any New Zealand statutory safety requirements.
- 6.4 In any event, the total liability of the Supplier whether in tort (including negligence), contract or otherwise for any loss, damage or injury arising directly or indirectly from any defects in goods or services supplied by the Supplier or any other breach of the Supplier's obligations shall in any case be limited at the Supplier's option, except where statute expressly requires otherwise, to the lesser of the purchase price of the goods complained of, the cost of repairing or replacing the defective goods or workmanship or the actual loss or damage suffered by the Customer. The Supplier shall not be liable for any consequential, indirect or special damage, loss or injury of any kind suffered by the Customer or any other person.
- 6.5 While the Supplier will make every effort to ensure the accuracy of any advice, recommendation, information, assistance or service provided by the Supplier or their use or application, the Supplier does not accept any liability or responsibility in respect thereof.
- 6.6 The Customer indemnifies and will keep the Supplier indemnified in respect of all costs, losses, damages, claims or expenses caused to or suffered by any third party whether directly or indirectly arising out of or in connection with the use of the goods and services supplied to the Customer by the Supplier.

7. OTHER RIGHTS OF SUPPLIER

If:

- (a) any amount payable by the Customer to the Supplier is overdue, or the Customer fails to meet any other obligation to the Supplier, or in the Supplier's opinion the Customer is likely to be unable to meet its payment or other obligations to the Supplier; or
 - (b) the Customer becomes insolvent, has a receiver appointed in respect of all or some of its assets, makes or is likely to make an arrangement with its creditors or has a liquidator (provisional or otherwise) appointed or is placed under statutory or official management or any like happening howsoever is called in any jurisdiction;
- then without limiting any other right of the Supplier:

- (i) the Supplier may cancel all or any part of the Contract or Contracts with the Customer which remains unperformed; and
- (ii) all amounts outstanding under any contract with the Supplier whether or not due for payment immediately become due and payable; and
- (iii) the supplier shall be entitled to claim any goods it has supplied which are in the Customer's possession or control and to dispose of them for its own benefit and for the purpose of the supplier shall be entitled, without notice to enter directly or by its agents on any premises where it believes goods which it has supplied may be stored, without in anyway being liable to any person.

8. MISCELLANEOUS

- 8.1 The Customer shall be responsible for disposing, at its own cost, of all materials used in the packaging or delivery of goods supplied by the Supplier.
- 8.2 If at any time the Supplier does not enforce any of these terms and conditions or grants the Customer time or other indulgence, the Supplier shall not be construed as having waived that term or condition or its rights to later enforce that or any other term or condition.
- 8.3 Where any provision of these terms and conditions is rendered void, unenforceable or otherwise ineffective by operation of law, that shall not affect the enforceability or effectiveness of any other provision.
- 8.4 No delay in performance of or failure to perform any obligation by the Supplier shall constitute a breach by the Supplier of its obligations under any contract with the Customer if such delay or failure is occasioned by any cause beyond the reasonable control of the Supplier. The Supplier shall notify the Customer of any such failure or interruption and shall use reasonable diligence to put itself as quickly as possible in a position to carry out its obligations hereunder.
- 8.5 The Customer undertakes to keep terms and conditions and prices of goods and services or both confidential.
- 8.6 The terms and conditions and any contract subject to them are and is to be governed by and construed in accordance with New Zealand law.
- 8.7 The 1980 United Nations Conventions on Contracts for the International Sale of Goods is excluded with respect to goods covered by any contract subject to these terms and conditions.
- 8.8 The Customer acknowledges that all rights to patents, trademarks, trade names, inventions, trade benefits, copyrights and know-how relating to the design and manufacture of goods are vested in the Supplier and the Customer undertakes not to breach any of these rights by its use of the goods.