

SpecWare 9 Pro and Basic Software

Quick Start Guide

Item #'s

3654P9, 3654P9U, 3654P9X,
3654B9, 3654B9U, 3654B9X



Spectrum[®] Technologies, Inc.

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Thank you for purchasing SpecWare software. Several manuals, including the full User Manual, Disease Model Manual and Advanced Features Manual will be installed as .pdf files in your SpecWare folder. These can be easily accessed via the Help menu in SpecWare. Adobe® Reader or Foxit Reader (available free from www.adobe.com or www.foxitsoftware.com, respectively) is required to view these documents.

This Quick-Start guide introduces the most commonly used features of the software.

Spectrum[®] ***Technologies, Inc.***

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INSTALLATION

Upgrading From Prior Versions

If you have a prior version of SpecWare already installed on a given computer, it is recommended that SpecWare be installed in the same directory as the existing version. Multiple versions of SpecWare can co-exist without interfering with one another. Data files from SpecWare versions 6 or earlier must be imported into the current version of SpecWare before they can be used. SpecWare cannot convert current format SpecWare data files to the format used by earlier versions.

Installing SpecWare from a CD

Insert the SpecWare installation CD in your computer's disk drive. On most machines, the software installation will begin automatically. If it does not, run the **Setup.exe** program on the CD.

Downloading SpecWare from the Web

- Go to www.specmeters.com/software
- Click on the **SpecWare 9 (Pro or Basic) Installer** link.
- If you are using A-Series or B-Series (Button) loggers, then you must also click on the **WatchDog A-Series and B-Series Driver Installer** link.
- Run the Installer file(s) you downloaded (in most cases, they will be in your 'Downloads' folder).

Note: Windows only "recognizes" software with millions of installations. If you receive an "unrecognized app" message when installing our software, please click "More info" and then "Run anyway".

When prompted to **Select Install Type** click on **Complete** to install sample data files. Follow the screen instructions to complete the installation. A desktop icon and a Start menu entry for SpecWare will be created. The program can also be run by clicking on the **Spec9Pro.exe** (or **Spec9Basic.exe**) file in the **C:\SpecWare** directory.

ACTIVATING SPECWARE

SpecWare versions 9.6.1 and later require activation when installed on a new PC, or if the version has changed (as from 8 to 9, or Basic to Pro).

When first run, an activation screen will be displayed, with instructions.



Activate Spec9Pro

Order Number

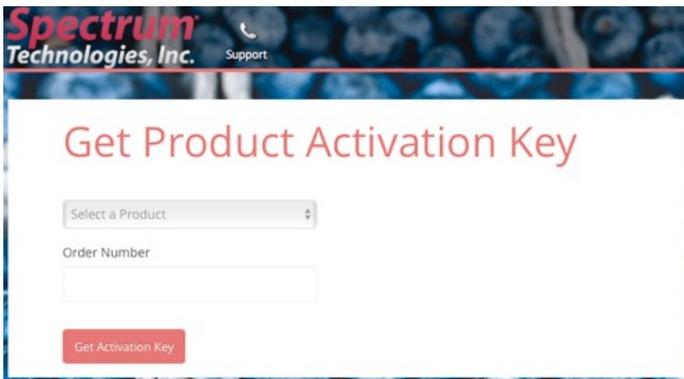
Activation Code

Enter the order number and your Activation Code to activate Spec9Pro.

If you do not have your Activation Code,
go to www.specconnect.net/activate to obtain it.
You will need your order number to generate the code.

OK Cancel

- Go to www.specconnect.net/activate



Spectrum Technologies, Inc. Support

Get Product Activation Key

Select a Product

Order Number

Get Activation Key

- Select SpecWare Pro or Basic from the pull-down.
- Enter the order number where SpecWare was purchased.
- Click “Get Activation Key”.
- A message will be displayed (for example): “Your Product Activation Key is: B3C9-9005-7E50-E19F”. Note that this key is only valid for 48 hours.
- Copy the 16-character key into the field on the SpecWare Activation screen.
- Enter the same order number into the SpecWare Activation screen.
- Click “OK”.

If the key and number were entered correctly, SpecWare will be unlocked, and a “success” message will be displayed, otherwise the screen will redisplay so corrections can be made.

DEFAULT SETTINGS

Preferences

General | Communication | Data Storage | Graph | Monitor

Units

Metric (Celsius, mm, km/h)

English (Fahrenheit, in, mph)

Degree Day Calculations

Use Actual Degree Days

Compute Degree Days using the Single Sine Method

Compute Degree Days using the Growing Degree Day Method

Date and Time Display

Date: ISO 8601 [Y-M-D]

Time: 12 Hour [AM/PM]

Report: Standard

2010-03-09 09:31AM (03/09)

Language: English

Location (for ET calculation)

Latitude (degrees): 40

Use negative degrees for the Southern Hemisphere

Altitude (feet): 200

Growing Season Begins in Month: January(1)

Dew Point

Save as data with Temp and RH

Device Support

A-Series Loggers

B-Series (Button) Loggers

C-Series (Original) Loggers/Stations

1000/2000 Series Loggers/Stations

OK Cancel

Preferences

General | Communication | Data Storage | Graph | Monitor

Direct Connection (Gray Cable)

Port: COM1 Communications Port All

Test Port: 2000

A-Series Loggers

Port: None

Wireless

Port: COM1 Communications Port

Modem Dial-Out

Port: None

Modem Initialization String

Original: ATZ0Q0V1X4+MS-V22.0,1200,1200,1.

2000-Series: ATZ0Q0V1X4

Touch Tone Dialing

Pulse (Rotary) Dialing

Wait after Connect (seconds): 0

Advanced Options

OK Cancel

The default settings are selected in the **Preferences** screen which is accessed from the **File** toolbar menu. This screen allows you to configure the software's default settings. Two important ones should be set immediately.

- ◆ The unit system to be used (English or Metric) should be set in the **General** tab.
- ◆ The Com Port SpecWare uses to communicate with the data logger should be selected, and can be tested, in the **Communication** tab (see **Testing the Com Port**, p. 6). Select the Port by clicking on the down arrow, highlighting the correct port name (the default is to use the provided 3661U black cable). Click on the OK button at the bottom of the screen.

TESTING THE COM PORT

USB Connection

SpecWare is provided with a black USB to 3.5mm stereo adapter cable (item 3661U). The older gray cable requires a Serial to USB adapter for use with PCs that do not have an RS-232 serial port. You can purchase a silver USB to 9 pin serial adapter cable (item 3661USB) to use with your gray cable, or item 3661U to replace it. Either adapter requires a driver to be installed on your machine.

Specifying the Com Port

If you are using either the 3661U or 3661USB adapter cable, you should select it from the dropdown list, instead of a specific COM port. SpecWare will then find the cable, no matter what COM port Windows assigns to it.

Identifying the Correct Com Port

On the **Communications** tab of the **Preferences** screen, the Communications Port to which the PC interface cable is connected can be confirmed by using a standard size paper clip or a WatchDog 1000 or 2000 Series Station/Logger.

1. Use the pull-down list to select the COM port to be tested.
2. With the cable plugged into the PC, but nothing on the other end, click on the **Test** button. Within 4 seconds, you should receive one of these messages:

Unable to Connect. COMx was opened, but... Success. Continue with step3.

Successful connection for a loopback test Another device (such as a modem) is probably connected to that port.

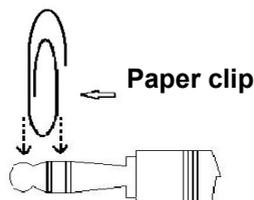
Unable to connect. COMx was unable to be opened. Either the cables was not plugged into the PC, or this is not a valid COM port number.

3. Connect a WatchDog 1000 or 2000 Series Station/Logger, or the smallest side of a standard size paperclip (about 1 3/8" [3 cm] long) on the end of the serial pin so that it touches **BOTH** the tip of the pin and the metal area between the two black rings. Again click on the **Test Port** button. Within 4 seconds, you should receive one of these messages:

Successfully connected to a WatchDog 1000 or 2000 unit. Success for a WatchDog device test.

Successful connection for a loopback test Success for a paper clip test.

Unable to Connect. COMx was opened, but... Either this is not the correct port, the batteries are low on your WatchDog device, or the paper clip was misplaced. Correct the problem and repeat, or try another COM port.



CABLES

Logger Type	Direct Connection	Item #
<i>1000-Series Station</i>	<i>Black USB to 3.5 mm Stereo Plug Cable</i>	<i>3661U (Included with Specware)</i>
<i>A-Series Logger</i>	<i>USB Cable</i>	<i>3661A</i>
<i>B-Series (Button) Logger</i>	<i>9-Pin Serial or USB Dock</i>	<i>3655K/3655K1</i>
<i>C-Series Original Logger/ Weather Station</i>	<i>Black USB to 3.5 mm Stereo Plug Cable</i>	<i>3661U (Included with Specware)</i>
<i>2000 Series Stations</i>	<i>Black USB to 3.5 mm Stereo Plug Cable</i>	<i>3661U (Included with Specware)</i>

When using the black cable for the first time, the driver will automatically install if the PC is connected to the internet. Otherwise, use a flash drive to carry the driver from an internet-connected PC. Find the link on the SpecWare 9 update page at www.specmeters.com. To use the cable with SpecWare, Hardware Flow control (RTS) must be turned off. Find this in the Advanced Options page of the Communications tab of SpecWare Preferences. For more information, see the product manual for the USB to 3.5 mm Stereo Plug Cable (item 3661U).

DATA LOGGERS & MICRO STATIONS

Activating (Launching) a Data Logger

These models will not actively record data until they have been started via SpecWare software. Launching a logger will clear all data from its memory.* Care should be taken that the logger has been downloaded before initiating the launch sequence. The launch procedure is as follows:

1. Plug the PC connection cable (see chart on pg. 8) into your PC and into the logger.

2. Use the **Logger** menu item or toolbar icons to launch the logger.



Launch/Set Properties for WatchDog 1000 or 2000



Launch WatchDog A-Series Logger



Launch WatchDog B-Series (Button) Logger



Launch Original WatchDog (C-Series)

3. Enter the appropriate information in the **WatchDog Properties** screen.
4. Click the **OK** button to transfer the settings to the logger and begin the data logging process.

**Note: 1000 Series Micro Stations do not need to be re-launched if the "Wrap around when full" has been checked in the WatchDog Properties. They will retain old data until the space is needed for new data.*

Downloading a Data Logger

1. Plug the PC connection cable (see chart pg. 8) into your PC and into the logger..
2. Use the **Logger** menu item or toolbar icons to get data from the logger.



Get Data from WatchDog 1000 or 2000 Series



Get data from a WatchDog A-Series Logger



Get Data from a WatchDog B-Series (button) Logger



Get Data from an Original WatchDog (C-Series)

3. The first time a logger is downloaded or if a new name has been given to it, the message "An attempt is being made to save data into a nonexistent folder. There is no directory (folder)..." will be displayed. Click on the **Yes** button to create a new folder.

WATCHDOG MANAGER 1000 AND 2000 SERIES STATIONS

WatchDog Manager easily tracks stations, loggers and their data. Essential for remote weather stations; can also be used for loggers.

Configuring a 1000 or 2000 Series Micro, Mini, or Weather Station with WatchDog Manager

To change the configuration of the 2000 Series Station or Data Logger:

1. Plug the connection cable into your PC and into the logger and open up SpecWare
2. Select **WatchDog Manager** icon from the toolbar icons. 

3. Click the **New Station** button



4. Enter the logger name, and select the appropriate **WatchDog Type** and **Connection Type** and where appropriate **Number** as noted below.
 - Local (Direct Connect)- (no number required)
 - Wireless (Multipoint) - Enter the Serial # of Weather Station
 - Modem (Dial-out to remote wired) - Enter the phone number for the station modem.
 - Modem (Dial-out to remote cellular) - Enter the phone number for the station modem.
 - Web (SpecWeather.com, SpectrumWeather.com) - Enter Weather Station Model & Serial as a nine digit #.



5. Click the **More** button to display the properties saved on the station/logger.
6. Make any changes to the **WatchDog Properties**, and click the **OK** button to transfer the settings to the station/logger.

2000 Series Station Note:

When a new station is created in **WatchDog Manager**, that station name is compared to the name on the station itself. If they differ, you will be given the option to change the name and clear the stations memory. See the SpecWare User's manual for details on erasing station data.

Configuring an Existing Station/Logger with SpecWare

The process for reconfiguring a station/logger that has previously been set up in the **WatchDog Manager** is similar to creating a new station.

1. Plug the PC connection cable into your PC and into the station/logger. Select **Watchdog- Manager** icon from the toolbar menu.
2. Select the desired station/logger within the **WatchDog Manager** screen.*
3. Click the **Properties** button.
4. Click the **More** button to expand the screen.
5. After setting all configuration settings, click the **OK** button to transfer this information to the logger.

Downloading a Station/Logger

1. Plug the PC interface cable into your PC and into the station/logger.
2. Select **WatchDog Manager** icon from the toolbar buttons.
3. Select the **<Direct-Connect 2000 Series>** and click the **Readout** button.*
4. Data will be saved to a **Logger Location** with the same name as the Station/Logger Name. If such a location does not exist, SpecWare will prompt you before creating it.

* If the station/logger is connected directly, it is easiest to select the **<Direct Connect 2000 Series>** entry in the list. For remote connections, such as wireless, select the station's entry that was set up previously.

Configuring a 2000 Series Weather Station with the Keypad

It is possible to deploy a weather station (Model 2900ET, 2700 and 2550) without configuring it with SpecWare. See the WatchDog 2000 Series Weather Station User's Guide for details.

SPECWARE DIRECTORY

The SpecWare directory is created during the installation process. The default location of this directory is usually C:\SpecWare or wherever SpecWare has been previously installed. The SpecWare directory contains the program's executable file as well as other support files. Logger and weather station data is saved in sub-directories of the SpecWare directory (usually referred to as **Logger Locations**). If selected during installation, SpecWare will create a sub-directory called SPECDEMO, containing sample data, allowing new users to try out SpecWare's graph and report features.

VIEWING DATA

1. Select **Open File** option from the SpecWare **File** menu.
2. Select **Logger Location** of interest as well as one or more months of data you wish to view and click the **Open** button.
3. Select one or two parameters to plot and click **Redraw** button.
4. To view reports, select an option from the **Tools** menu. After selecting a specific report, click the **View Report** tab.

WARRANTY

This product is warranted to be free from defects in material or workmanship for one year from the date of purchase. During the warranty period Spectrum will, at its option, either repair or replace products that prove to be defective. This warranty does not cover damage due to improper installation or use, lightning, negligence, accident, or unauthorized modifications, or to incidental or consequential damages beyond the Spectrum product. Before returning a failed unit, you must obtain a Returned Materials Authorization (RMA) from Spectrum. Spectrum is not responsible for any package that is returned without a valid RMA number or for the loss of the package by any shipping company.

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