



## B-Series Loggers & Docking Stations

# PRODUCT MANUAL

Item # 3619WD, 3620WD, 3621WD, 3655K, 3655K1



**Spectrum<sup>®</sup>**  
**Technologies, Inc.**

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# MODEL SPECIFICATIONS

## B-Series Loggers

Item #	Internal Sensors	Intervals
<b>Model B102 T/RH</b> <b>Item 3621WD</b> Temp Range: -4 to -185 °F (-20 - 85 °C) Temp Accuracy: ±1.1°F from 5 to 149°F (± 0.6°C from -15 to 65°C) Humidity: 0 to 100%, ±5%	Temperature Relative Humidity	4000
<b>Model B101 8K</b> <b>Item 3620WD</b> Range: -40 to -185 °F (-40 to 85 °C) Accuracy: ±1.1°F from 5 to 149°F (± 0.6°C from -15 to 65°C)	Temperature	8000
<b>Model 100 2K*</b> <b>Item 3619WD</b> Range: -40 to -185 °F (-40 to 85 °C) Accuracy: ±1.8°F from -22 to 158°F (± 1.0°C from -30 to 70°C)	Temperature	2000

*\*Use included plastic bag when measuring soil temperature*

**Button Loggers are NOT “waterproof” they are rated IP65, meaning water can be sprayed or splashed upon it, but it cannot be immersed.**

**Continuous contact with water through immersion or by burying in soil will degrade the seal and may result in product failure. The enclosed plastic envelopes with the loggers can be used to protect the loggers if you are measuring temperatures. Envelopes should not be used if also measuring RH.**

***Please remember to periodically check button loggers after installation. Loggers buried in plastic envelopes may deteriorate over time .***

## **Docking Stations**

There are two types of docking stations that can be used with your B-Series Loggers see chart below.

<b>Model</b>	<b>Connection Type</b>	<b>Software Needed</b>
3655K	9-Pin Serial	SpecWare 6.0 or greater
3655K1	USB	SpecWare Basic or Pro v9.1

The Docking Station is used to connect the WatchDog B -Series (Models B102 T/RH, B101 8K, 100 2K) Data Loggers to a PC. This manual will aid you in using your docking station. Read it thoroughly to insure proper and effective use.

## **Connecting the docking station to the PC**

### **3655K Serial**

The 3655K docking station has a serial port interface. To connect to a PC that does not have a serial port, you will need to purchase a USB to serial adapter (item 3661USB). This item requires SpecWare 6.0 or greater.

### **3655K1 USB**

The 3655K1 docking station has a USB interface. Before connecting to a PC for the first time, the USB driver must be installed. This is done by either installing or updating SpecWare Basic or Pro v9.1 or higher. Previous builds of SpecWare 9 can be updated via free downloads available at [www.specmeters.com](http://www.specmeters.com). The software version can be checked by selecting "About SpecWare" from the Help menu.

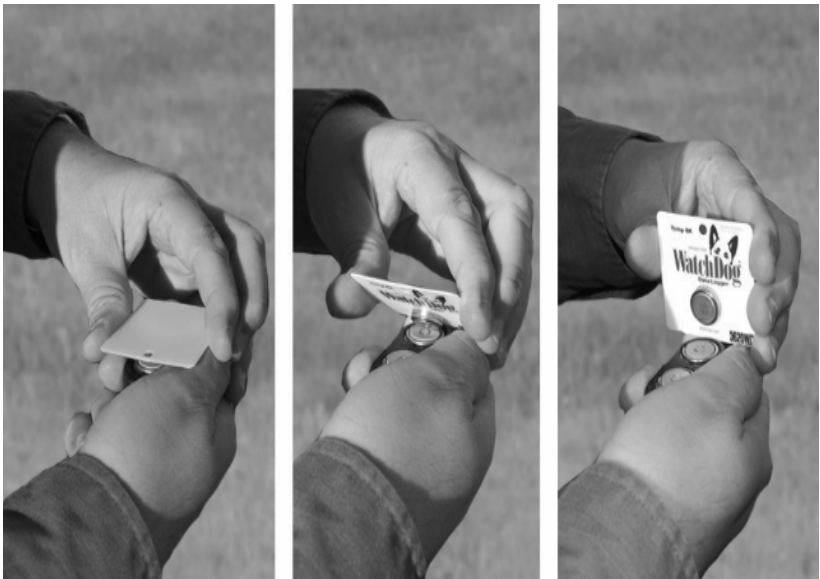
## **Connecting the logger to the docking station**

The WatchDog B-Series data loggers simply snap onto the docking station as shown in the photo below. While attached to the docking station, the logger may be read and/or relaunched using SpecWare software.

The docking station has two blue buttons/docks. Either may be used with your data loggers (do not however use both simultaneously).

## **Removing logger from the docking station**

Grab the data logger on two sides and pull up on a slight angle (as pictured below). Do not grab the corner of the backing and pull as the severe bending that results may separate the backing from the logger.

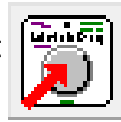


# SPECWARE SOFTWARE

Complete details on the software are included in the SpecWare Software manual which is available as a .pdf document on the installation CD (and accessible via the Help menu). The following sections summarize the most commonly used functions.

## Launching the Loggers

The “Launch Options” screen is used to configure the logger and activate it so it can collect data. The launch screen can be accessed through the WatchDog Manager or by clicking the “Launch a Button Logger” toolbar button.



WatchDog Properties

Logger/Station Name  
button1  
Button, connected via Direct Connection

Data Collection Interval 1 Min

Report None Model 100 - Serial 0F0000001C4F6621 - Version 1.0

Channel	Port	Enabled	Sensor / Units	Read Sensors	Calibration
1	Temp	<input checked="" type="checkbox"/>	Temperature [F]	74.3	Battery: 100%

Wrap around when full (overwrite oldest data)  Delayed Start Date 2015-05-14 Time 08:36AM

Have you downloaded the data from this logger?  
If not, it will be erased unless you click Cancel.

Cancel OK

Set the data collection interval ranging from 1 to 120 minutes and ensure all channels are enabled. The Delay Start option allows you to start logging data at a later time.

If the “Wrap around when full” box is checked, when the logger reaches its maximum data capacity, each new data record will overwrite the oldest. If the “Wrap around when full” box is NOT checked the logger will simply stop recording data once the maximum capacity has been reached. Click the “OK” button to launch the logger.

## Downloading the Loggers

Use either the WatchDog Manager or the “Get data from a Button logger, Shuttl” toolbar button to save the logger data. When the download is complete, a dialog box will appear indicating the readout and translation complete. All new loggers require you to create a new Logger Location the first time the logger is read out.



**IMPORTANT:** Until the logger is re-launched, the data remains on the logger and can be downloaded again. Once data has been downloaded, you must re-launch the logger to continue making measurements. Clicking the **Start** in the “Launch Options” screen erases any previously recorded data from the logger

## **TROUBLE SHOOTING**

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Commonly asked questions include:

- Q. Why does my button display the following message “Unable to connect one wire exception 1-wire not available?”
- A. Owapi.dll needs to be registered, go to Windows Start, Run and type “Regsvr32 C:WINDOWSsystem32owapi.dll then click OK.
- Q. What does it mean if I received the following message “Unable to access the button logger interface. This is probably due to Java not being installed on this computer?”
- A. You need to check your C:\SpecWare folder for msjavx86.exe and double click it to run it. If it is not there then you need to install the Java Library from our website, [www.specmeters.com](http://www.specmeters.com). Go to Support, Software Updates, USB Software and Driver Updates and download Java Library Build 0133 or use this link: [http://www.maximintegrated.com/products/ibutton/software/tmex/download\\_drivers.cfm](http://www.maximintegrated.com/products/ibutton/software/tmex/download_drivers.cfm)

# 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.



This equipment has been manufactured for  
Spectrum Technologies, Inc.  
12360 S. Industrial Dr. East  
Plainfield, IL 60585 USA

The Manufacturer's **DECLARATION OF CONFORMITY** is on file at the above address, and certifies conformity to the following:

Model Number: 3619WD, 3620WD, 3621WD, 3655K, 3655K1  
Description: WatchDog B-Series Loggers & Docking Station  
Type: Electrical Equipment for Measurement, Control, and Laboratory Use  
Directive: 89/336/EEC 2004/108/EC  
Standards: EN 55022:1998+A1:2000+A2:2003 Class B  
EN 55024:1998+A1:2001+A2:2003  
EN 50082-1:1997 (IEC 801.2, 801.3, 801.4)  
EN 61000-3-2:2000+A2:2005 Class A  
EN 61000-3-3:1995+A1:2001

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