

DATALOGGING RAIN GAUGE

CATALOG # 3554WD



Spectrum
Technologies, Inc.

Thank you for purchasing a Spectrum Datalogging Rain Gauge. With proper installation and care, it will give you years of accurate and reliable measurements. This instruction manual takes you through the procedures required to set up and use the Datalogging Rain Gauge. Read it thoroughly to insure proper and effective use of the sensor.

The datalogger records rain activity over time when connected to a tipping-bucket type rain collector. The logger records accumulated rainfall during each interval (maximum of 2.55" per interval). The flashing red LED light blinks every 2 seconds to confirm logger operation.

The datalogger is enclosed in a storage cavity under the collector cone (see cover illustration). To access the logger, loosen the four screws which secure the cone to the base. Rotate the cone from the base until the screws are free from the latches and separate the cone from the base. Remove the colored cap from the cylindrical cavity and remove the datalogger (it may be disconnected from the right-angle connector at any time).

Use SpecWare software to program the WatchDog to log rainfall. Connect the logger to your PC using the interface cable provided with the software. Measurements can be recorded in metric or US units. Refer to the SpecWare User's Guide for detailed launch and/or readout instructions.

Specifications:

Type: Self-emptying tipping bucket
Resolution: 1/100 inch (0.254mm)
Accuracy: $\pm 2\%$ with rainfall of 2.5" (63.5mm) / hour
Event type: Tip (relay contact opening)
Event intervals: 1, 5, 10, 15, 30, 60 and 120 minutes.
Capacity: 7000 intervals; with a maximum of 2.55" (65mm) per interval
Battery: CR2032 (replace every year)

For customer support, or to place an order, call Spectrum Technologies, Inc. at (800)248-8873 or (815) 436-4440 between 7:30 am and 5:30 p.m. CST, FAX at (815)436-4460, or E-Mail at info@specmeters.com.

Installation and Maintenance

When choosing a location for your rain collector, keep the following in mind:

- Mount the collector on a 1" - 1.25" (25-32mm) mast (pipe) using the u-bolts. Make sure the collector is level when positioning the mast mount. Use a bubble level to check that the collector's base is level.
- The gauge contains a magnet-operated switch which may not operate correctly if you mount the rain collector on or near any object which attracts a magnet.
- Choose an easily accessible location for normal cleaning that is far from trees and other sources of pollen or debris.
- The rain gauge must be located in an open area.

For greatest accuracy, you should thoroughly clean the rain collector at least once or twice a year. Your gauge should be cleaned using a mild detergent on the dipper and respraying with "Elmer's Slide-all". This teflon spray can be obtained at your local hardware store. Note: Disconnect the logger from the rain collector to avoid any inadvertent counts on the logger when cleaning.

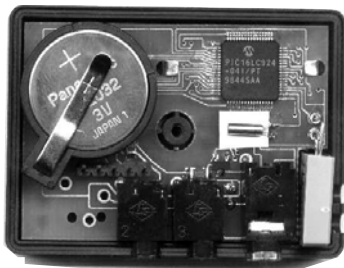
Inspect the collector frequently to make certain it is still level and clear of obstructions.

Battery Replacement

The datalogger is powered by a 3 Volt CR2032 battery. It is user replaceable and can be purchased locally. Other battery numbers that may be substituted for a CR2032 are BR2032 or DL2032. We recommend changing the battery every year.

To replace the battery:

1. Remove the logger from the storage cavity, unplugging the cable.
2. Remove the screw, then the back cover of the logger.
3. Insert a flat-edged screwdriver completely underneath old battery. Gently lift edge of battery over casing lip and slide the battery out of the battery holder.
4. Insert a new CR2032 battery positive side up.
5. Replace cover and tighten cover screw.




The logger is ready to be relaunched if the LED briefly illuminates following battery installation. After being relaunched with the SpecWare Software, the LED light will resume blinking.

WARRANTY

The Datalogging Rain Gauge is warranted to be free from defects in materials and workmanship for a period of 1 year from the date of original purchase. During the warranty period, Spectrum will, at its option, either repair or replace products that prove to be defective. This warranty is void if the product has been damaged by customer error or negligence, or if there has been an unauthorized modification.

Returning Products to Spectrum

Before returning a failed unit, you must obtain a Returned Goods Authorization (RGA) number from Spectrum. You must ship the product(s), properly packaged against further damage, back to Spectrum (at your expense) with the RGA number marked clearly on the outside of the package. Spectrum is not responsible for any package that is returned without a valid RGA number or for the loss of the package by any shipping company.

	DECLARATION OF CONFORMITY
	Spectrum Technologies, Inc. 12360 S. Industrial Dr. East Plainfield, IL 60585 USA
Model Numbers:	3554WD
Description:	Datalogging Rain Gauge
Type:	Electrical equipment for measurement, control, and laboratory use
Directive:	2004/108/EC
Standards:	EN 61326-1:2006 EN 61000-4-2:1995, including A1:1998 and A2:2001 EN 61000-4-3:2002 EN 55011:2007
	
Michael J. Dunning, Weather Products Manager	January 16, 2009

Spectrum Technologies, Inc
12360 S. Industrial Dr. E
Plainfield IL 60585
(800) 248-8873 or (815) 436-4440
Fax (815) 436-4460
E-Mail: Info@specmeters.com
www.specmeters.com

