



Certified ISO 9001

EZ Stat[™]

User's and Installation Manual



Decatur Electronics, Inc.
715 Bright Street, Decatur, IL 62522

USA/Canada 800.428.4315

Intl 217.428.4315

Fax 217.428.5302

www.decaturradar.com

1. *EZ Stat™* Features

The *EZ Stat* features a serial module and statistics software and is easily used with most Decatur Electronics products. Create customized traffic speed and flow reports with the *EZ Stat™* software technology.

For more information on other radar/message trailers and signs, contact us toll-free at 800.428.4315 or visit the web at www.decaturelectronics.com.

2. Components



Figure 2. *EZ Stat* Installation CD, Wall Adapter, and Module

2.1 *EZ Stat* Module

Use the *EZ Stat* module to collect traffic data from Decatur's speed measurement products.

2.2 *EZ Stat* Software Installation CD

Use the *EZ Stat* Software Installation CD to load the *EZ Stat* software application (See section 4.2). Use the *EZ Stat* software application to examine data collected with the module.

2.3 Wall Adapter

Use the 110VAC/4.5VDV wall adapter to power the *EZ Stat* module.

3. EZ Stat Module

3.1 EZ Stat Operation Indicators

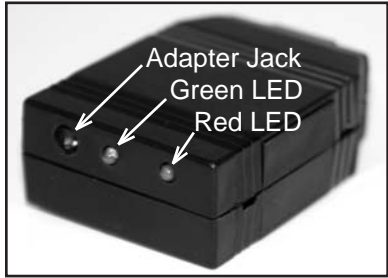


Figure 3.1 Operation Indicators

The green LED indicates power is on when powered by wall transformer.

The green LED indicates memory usage when powered by speed measurement device. Memory capacity is approximately 130,000 counts.

8 flashes	empty
7 flashes	1/8 used
6 flashes	1/4 used
5 flashes	3/8 used
4 flashes	1/2 used
3 flashes	5/8 used
2 flashes	3/4 used
1 flashes	7/8 used
0 flashes	full

Table 3.1 Memory Usage

The red LED indicates data transfer when connected to a computer.

The red LED blinks each time an event gets recorded when connected to a speed measurement device.

4. EZ Stat Software

4.1 Installation

System Requirements:

Microsoft Windows® 98/2000/ME/XP

Microsoft Office Excel® 2000/ME/XP

Minimum Screen Resolution 800 x 600, 1024 x 768 for internal graphs

1. Insert *EZ Stat* CD. If the CD does not start automatically follow steps 2-6, otherwise skip to step 7.
2. Press: Start
3. Select: Run
4. Press: Browse
5. Select: (cd drive:) autorun.exe
6. Press: Open
7. Follow prompts to install the application.

4.2 Logger Setup

Open the *EZ Stat* software and plug the *EZ Stat* transformer into the power jack on the back of *EZ Stat* and into 115V wall outlet. (Green LED should light)

Connection

COM: Select the port to which the serial module is connected.

CONNECT: Connect to the logger device.

DISCONNECT: Disconnect from the logger device.

Settings

SET LOGGER TIME FROM PC CLOCK: Set the *EZ Stat* module's time to the PC's time.

USING ONSITE SERIES: Using trailers or Decatur's *S/I* units for data.

USING DECATUR RADAR: Using radar guns for readings.

CLEAR THE LOG: Erase all data from the logger device.

Log File

SAVE TO FILE WHEN READING: If checked, save the information being read from the logger to the file listed in box "filename." If you forget to check this box before reading from the logger device you can go to the File Menu→Save Logged File to save to your hard drive.

READ LOG FILE FROM UNIT: Read the log entries from the data logger if connected.

READ LOG FILE FROM FILE: Open a log file that was created.

FILENAME: The file that is used to save the log file to, or from where the file was read.

COMMENTS: If saving to file when reading from the unit, the comments are added to the unit; if the log file is read from a file, the comments are any that were in the file.

PROGRESS: Shows the progress of reading the data from the logger unit or file.

4.3 Generate Report

This window will only show up once data has been loaded from a logger unit or file.

REPORT START/FINISH: Sets the starting and finishing Hour, Month, Day and Year for your report. Based off of the information from the loaded data the start and finishing settings will be set for you. **Note:** Changing the Year or Month will alter the number of days and may reset this value.

TIME INTERVAL: Parse data at that interval, **Example:** A setting of 15 minutes between 4:00 and 5:00 would have 4 Points of data (4:00-4:14, 4:15-4:29, 4:30-4:44, 4:45-4:59), 30 minutes would have 2, etc.

HOUR FORMAT: 12 or 24 hour clock

MEASUREMENT: mph or Km/h

SPEED INTERVAL: The range between speeds (5, 10, or 20). At 5 the range goes from *16-20, 21-25, 26-30*, etc., at 10, *16-25, 26-36*, etc...

INTERVAL MIN: This is the lowest point at which the interval starts.

Example: If the **MINIMUM SPEED** is 0, and the **INTERVAL MIN** is 30, the first speed range is 0-30. If **MINIMUM SPEED** is 20 and the **INTERVAL MIN** is 30, the first speed range would be 20-30.

INTERVAL MAX: This is the highest speed for your interval stats. If your Interval Max is 80, then your last category will be 80+.

POSTED LIMIT: This is the posted speed limit.

MINIMUM SPEED: This is the minimum speed; any speed below this number will not be counted in the survey.

MAXIMUM SPEED: This is the maximum speed; any speed above this number will not be counted in the survey.

DATE FORMAT: This option allows you to change the format of the displayed dates. There are three available options.

FIXED REPORT STYLE #1-: This report style sets the Interval Min and Interval Max based off of your Posted Limit so that there are 3 categories: those below the speed limit, those who are within 5 of the speed limit, and those who are above the speed limit. This report style does not generate a graph.

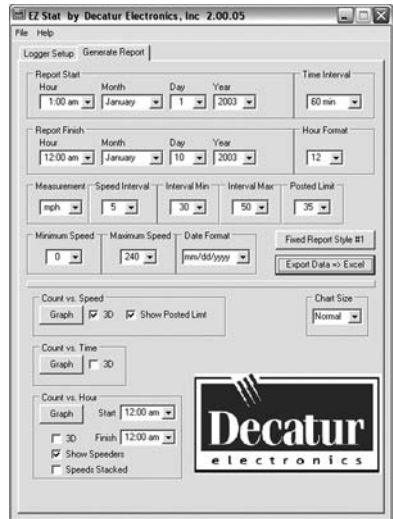


Figure 4.3 Generate Report window

EXPORT DATA: > EXCEL:

Exports the raw data to Microsoft Excel®. It will also generate a report and summary based off of the selections in Excel.

CHART SIZE: Based off of your computer settings, this will allow for various sizes of graphs for printing..

Count vs. Speed (Bar Graph)

Best used for showing speed patterns over large date ranges.

GRAPH: Generates the internal graph.

3D: If checked, the graphs shows 3-D cylinders

SHOW POSTED LIMIT: If checked, a line shows the posted limit.

Count vs. Time (Line Graph)

This graph tends to need few speed ranges and few date range to be used successfully, we recommend if using this for more than one day you set your Time Interval to be 24 hours.

GRAPH: Generates the internal graph.

3D: If checked the graphs shows 3-D lines.

Count vs. Hour (Bar Graph)

Best used to show speeders vs. time of day. For best results we recommend no more than an eight hour window.

GRAPH: Generate the internal graph

3D: If checked the graphs shows 3d bars or pyramids.

SHOW SPEEDERS: If checked, there will be two bars, one for speeders and one for those driving leagally. If not checked then there will be just one bar with the count.

SPEEDS STACKED: If checked and Show Speeders is checked then the speeds will be stacked on top of each other to give both a total count and visually see the number of speeders.

START/ FINISH: The time of day to start/finish.

Traffic Speed Survey (Any Graph)

PRINT: Prints the “EZ Stat Traffic Speed Survey” window.

COPY TO CLIPBOARD: Copy the “EZ Stat Traffic Speed Survey” window to the clipboard. You can use this to copy over to a graphics program or Microsoft Word or Excel.

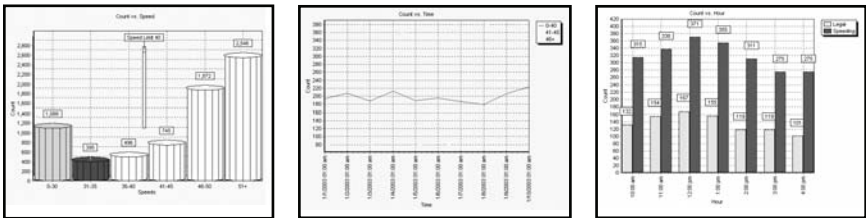


Figure 3 Sample EZ Stat graphs (l-r): count vs. speed, count vs. time, count vs. hour.

4.4 Data Collection

The *EZ Stat* reads vehicle speeds 5 times per second. When a moving object is detected by the radar, the logger expects it to be present for at least 4 seconds, then receive a zero speed. The maximum speed is recorded with the timestamp in the memory of the logger module.

NOTE: The *EZ Stat* will not create a record if another car is in range of the radar before the first one passes beyond the antenna. When traffic is heavy, there will be no gap (zero speed) in speed readings, and the *EZ Stat* will see the whole cluster of cars as one event.

5. Specifications

5.1 EZ Stat Module Specifications

Dimensions	3/4" H x 1-5/8" W x 2-1/2" L
Connector	D-Sub 9-Pin Connector; Plugs Directly into Serial Port
Memory	4 Megabit
Processor	68HC908 Family
Power	Lithium Coin Cell

6. Service

6.1 Support

E-mail software questions to: softwaresupport@decaturelectronics.com.

6.2 Warranty

ONE-YEAR RADAR WARRANTY

Decatur Electronics, Inc. guarantees the *EZ Stat* to be free from defects in workmanship and material and to operate within specifications for a period of one year. During this period, Decatur Electronics will repair or replace, at its option, any component found to be defective, without cost to the owner, providing you return the part to the factory or to a Decatur authorized warranty service center.

The full warranty on parts and workmanship does not include normal wear and tear, crushing, dropping, fire, impact, immersion, misuse, vandalism, or damage from attempted repair or modifications by unauthorized service agents.

For repair, simply return the unit (transportation prepaid) directly to:

Decatur Electronics, Inc.
715 Bright Street
Decatur, Illinois 62522
Telephone: 800.428.4315
Web: www.decaturelectronics.com

6.3 Service Return Procedure

If you have questions, want a quick problem diagnosis, or need to return your *EZ Stat*:

- Call Decatur Electronics Customer Service (800.428.4315) and ask for the Repair Services Department. Have the serial number of your *EZ Stat* unit ready. The Repair Services Department will tell you where to ship the part for repair.

The customer is responsible for all shipping charges to the Decatur service location. If your *EZ Stat* is out of warranty and you would like to know the cost of repair prior to the actual repair work being performed, Decatur's service center would be happy to give you a repair estimate.

6.4 How to Order Additional Products

To see product descriptions or to order other products, visit the Decatur Electronics Web site at www.decaturradar.com or call the sales office at 800.428.4315.