How do you perform a comprehensive test on your counter/classifiers? Are you looking for a way to comply with FHWA testing requirements?

ATRT 1700 / 1150
Automated Traffic Recorder Testers

The highway traffic data recorder is responsible for the raw data upon which major decisions concerning funding and priorities are made. The accuracy of this data (or lack thereof) can have far-reaching effects.

- How can the general operation and accuracy of the recorder be verified?
- If your agency repairs your counters, how are they checked following the repair?
- How can State agencies meet the FHWA requirement for the “…testing of equipment used in the collection of the data…used in the apportionment or allocation of Federal funds by the U.S. DOT”?
  (Ref: 23 CFR Part 500.203)

The ATRT models 1700 and 1150 are designed to simulate any type of highway vehicle passing over a user defined array of highway traffic sensors. The user selects and groups vehicles to be generated by the outputs of the tester. Parameters such as test duration, vehicle speeds, vehicle definitions, traffic rates, and more can be defined with the aid of the Windows interface application.

The software is designed to work with either the Model 1700 or 1150
Choose the Model 1700 for testing classifiers with multiple sensor inputs such as Piezo Strips, Air Tubes, Tape Switches, or Loops

8 Sensor arrangements are available with 4 different sensor types:

- **In Pavement Loop (8 each)**
- **Piezo Sensor (8 each)**
- **Air Tube (4 each)**
- **Tape Switch Closure (8 each)**

Different sensor setups can be created and easily saved and loaded for quick test setups.

You can enter classifier data to appear on the generated test report: Manufacturer, Model, Serial Number, and space for your own additional notes. When the test is completed, the classifier report can be compared to the ATRT report for possible variances.

**Choose the Type of Test: Set Number of Vehicles or an Interval Test**

<table>
<thead>
<tr>
<th>Sensor Setup</th>
<th>Test Setup</th>
<th>Speed Setup</th>
<th>Vehicle Select</th>
<th>Edit Vehicles</th>
<th>Diagnostics</th>
<th>ATS</th>
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<tbody>
<tr>
<td><strong>Test Type</strong></td>
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<tr>
<td>Set Number of Vehicles</td>
<td>Interval Test</td>
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<tr>
<td>Number of Intervals: 99</td>
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<td>Interval Period: 10 minutes</td>
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<td>Interval range from 1 to 2 seconds</td>
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<td>Vary time between vehicles</td>
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<td>Vary speeds within bins.</td>
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Generate Test:
- 4 lanes of Loop-Axle Loop
- Loop
- Piezo
- Loop

Current Sensor Setup:
- ATRT-1700-0000
The Model 1150 has 4 Road Tube simulator outputs, which can be used singly or in combination to make up sensor arrays.

The peak output level is adjustable with a control knob on the tester top panel. The user interface software shall display a reading to the user to indicate the output level.

After the test is finished, review the generated data in the Report Viewer. The tab delimited reports are easily imported into any spreadsheet or word processing program.

**Edit or create your own vehicle class!**

*Can have up to 20 axles with 1 to 60 foot spacings*
With so much riding on the data from your counters and classifiers, it makes sense to test their operation on a regular basis. The Federal Government actually requires that tested equipment be used in generating and recording highway volume data that is submitted to them for project funding purposes.

If a faulty tester is set up to collect data, you may not discover the problem until the first time that data is downloaded from the counter, if then. Avoid wasted time and money. Know your counter is going to work and the data will be accurate before sending the counter to the field. The ATRT testers perform a comprehensive test and create a test report to document the results.

Contact ATSI or your ATSI distributor for more information or visit our web site and download a demo version of the software to review.