

## 2000 Series – Railroad Testers

### All Models Feature:

- Designed to perform standard maintenance tasks (using Volts, Ohms, and Amps measurements) as well as specialized tasks requiring measurements on railroad coding equipment
- Auto Polarity in DC functions
- Auto or Selectable DC Amps Polarity
- Direct measurement of Code Parameters
- Ohmmeter voltage mode detects foreign AC or DC Voltages
- Relay contact on time (Dry Contact) requires no adjustment
- Peak measurements require no adjustment
- Includes: test leads, padded water repellent carrying case, shoulder strap, and batteries
- Optional models complete with Certificate of Traceability to N.I.S.T.
- 1 year warranty

### Models 2001,2002,2003 additional features:

- All models have a bypass switch to select “cab filter” or “no cab filter”
- Model 2000: Base unit with no Cab Filters
- Model 2001: Both 100Hz and 250Hz Cab Filters
- Model 2002: Both 100Hz and 200Hz Cab Filters
- Model 2003: Both 60Hz and 100Hz Cab Filters

### Ordering Information:

|           |                                                            |
|-----------|------------------------------------------------------------|
| 2010      | Model 2000 Railroad Test Set                               |
| 2010-NIST | 2010 Complete with Certificate of Traceability to N.I.S.T. |
| 2011      | Model 2001 Railroad Test Set                               |
| 2011-NIST | 2011 Complete with Certificate of Traceability to N.I.S.T. |
| 2012      | Model 2002 Railroad Test Set                               |
| 2012-NIST | 2012 Complete with Certificate of Traceability to N.I.S.T. |
| 2013      | Model 2003 Railroad Test Set                               |
| 2013-NIST | 2013 Complete with Certificate of Traceability to N.I.S.T. |
| 79-767    | Replacement Lead assembly, right angle                     |
| 10-3967   | Replacement Case for Railroad Testers                      |



**NIST**  
TRACEABLE  
CALIBRATION  
AVAILABLE



## Four models: Specialized testers for passenger and commercial rails

### Specifications

|                                          | Model 2000                                                                                       | Model 2001                                                                                       | Model 2002                                                                                       | Model 2003                                                                                       |
|------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| DC Voltage                               | 0.6V, 3V, 15V, 60V, 300V                                                                         | 0.6V, 3V, 15V, 60V, 300V                                                                         | 0.6V, 3V, 15V, 60V, 300V                                                                         | 0.6V, 3V, 15V, 60V, 300V                                                                         |
| DCV Accuracy                             | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         |
| DC Milliamps                             | 16mA, 60mA, 300mA                                                                                | 16mA, 60mA, 300mA                                                                                | 16mA, 60mA, 300mA                                                                                | 16mA, 60mA, 300mA                                                                                |
| DC mA Accuracy                           | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         |
| DC Amps                                  | 1.5A, 6A, 30A                                                                                    | 1.5A, 6A, 30A                                                                                    | 1.5A, 6A, 30A                                                                                    | 1.5A, 6A, 30A                                                                                    |
| DCA Accuracy                             | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         | ±1.5% FS                                                                                         |
| AC Voltage                               | 1.5V, 3V, 15V, 150V, 300V, 600V                                                                  | 1.5V, 3V, 15V, 150V, 300V, 600V                                                                  | 1.5V, 3V, 15V, 150V, 300V, 600V                                                                  | 1.5V, 3V, 15V, 150V, 300V, 600V                                                                  |
| ACV Accuracy                             | ±3.0% FS                                                                                         | ±3.0% FS                                                                                         | ±3.0% FS                                                                                         | ±3.0% FS                                                                                         |
| AC Amps                                  | 1.5A, 6A, 30A                                                                                    | 1.5A, 6A, 30A                                                                                    | 1.5A, 6A, 30A                                                                                    | 1.5A, 6A, 30A                                                                                    |
| ACA Accuracy                             | ±3.0% FS                                                                                         | ±3.0% FS                                                                                         | ±3.0% FS                                                                                         | ±3.0% FS                                                                                         |
| Cab Filter Response<br>(All AC ranges)   | 60Hz:—<br>100Hz:—<br>200Hz:—<br>250Hz:—                                                          | 60Hz:—<br>100Hz: 92 to 100Hz<br>200Hz:—<br>250Hz: 245 to 255Hz                                   | 60Hz:—<br>100Hz: 92 to 100Hz<br>200Hz: 196 to 204Hz<br>250Hz:—                                   | 60Hz: 57 to 63Hz<br>100Hz: 92 to 100Hz<br>200Hz:—<br>250Hz:—                                     |
| Code Functions<br>(All AC and DC ranges) | On Time: 3% to 100% (±3% FS)<br>Rate: 30 to 500CPM (±3% FS)<br>Peak Hold: 0<br>Peak Follow: 0    | On Time: 3% to 100% (±3% FS)<br>Rate: 30 to 500CPM (±3% FS)<br>Peak Hold: 0<br>Peak Follow: 0    | On Time: 3% to 100% (±3% FS)<br>Rate: 30 to 500CPM (±3% FS)<br>Peak Hold: 0<br>Peak Follow: 0    | On Time: 3% to 100% (±3% FS)<br>Rate: 30 to 500CPM (±3% FS)<br>Peak Hold: 0<br>Peak Follow: 0    |
| Volt Sense Mode                          | 15V AC or DC (±20%)                                                                              | 15V AC or DC (±20%)                                                                              | 15V AC or DC (±20%)                                                                              | 15V AC or DC (±20%)                                                                              |
| Resistance                               | Range: R x 1 and R x 100<br>Center Scale: 5 and 500 ohms<br>Accuracy: ±2% of scale length        | Range: R x 1 and R x 100<br>Center Scale: 5 and 500 ohms<br>Accuracy: ±2% of scale length        | Range: R x 1 and R x 100<br>Center Scale: 5 and 500 ohms<br>Accuracy: ±2% of scale length        | Range: R x 1 and R x 100<br>Center Scale: 5 and 500 ohms<br>Accuracy: ±2% of scale length        |
| Dry Contact                              | Allowable Resistance: 0 to 100 ohms<br>Test Voltage: 7.5 to 15VDC<br>Test Current: less than 1mA | Allowable Resistance: 0 to 100 ohms<br>Test Voltage: 7.5 to 15VDC<br>Test Current: less than 1mA | Allowable Resistance: 0 to 100 ohms<br>Test Voltage: 7.5 to 15VDC<br>Test Current: less than 1mA | Allowable Resistance: 0 to 100 ohms<br>Test Voltage: 7.5 to 15VDC<br>Test Current: less than 1mA |
| Fuse 1                                   | 1A/250V 8AG – Bussman AGX1<br>or Littelfuse 361001                                               | 1A/250V 8AG – Bussman AGX1<br>or Littelfuse 361001                                               | 1A/250V 8AG – Bussman AGX1<br>or Littelfuse 361001                                               | 1A/250V 8AG – Bussman AGX1<br>or Littelfuse 361001                                               |
| Fuse 2                                   | 10/A250V 3AB Normal Blow –<br>Bussmann ABV10 or Littelfuse 314010                                | 10/A250V 3AB Normal Blow –<br>Bussmann ABV10 or Littelfuse 314010                                | 10/A250V 3AB Normal Blow –<br>Bussmann ABV10 or Littelfuse 314010                                | 10/A250V 3AB Normal Blow –<br>Bussmann ABV10 or Littelfuse 314010                                |
| Power                                    | (2) 9V; (1) 1.5V D cell                                                                          |                                                                                                  |                                                                                                  |                                                                                                  |
| Dimensions                               | 5 x 6.5 x 3.2" (127 x 165.1 x 81.3mm)                                                            | 5 x 6.5 x 3.2" (127 x 165.1 x 81.3mm)                                                            | 5 x 6.5 x 3.2" (127 x 165.1 x 81.3mm)                                                            | 5 x 6.5 x 3.2" (127 x 165.1 x 81.3mm)                                                            |
| Weight                                   | 4.75 lbs (2.15kg) with case and leads                                                            | 4.75 lbs (2.15kg) with case and leads                                                            | 4.75 lbs (2.15kg) with case and leads                                                            | 4.75 lbs (2.15kg) with case and leads                                                            |