



### Multimeter for Railroad Servicing

The Simpson TS-113 Volt-Ohm-Milliammeter Railroad Test Set is a rugged, reliable instrument that has been designed for use by trained and qualified technicians associated with the Railroad Signaling and Communications Field.

In construction and general principle, it follows closely the proven Simpson pattern based on experience of many years of successful multimeter manufacture.

**The following standard features are exclusive only to the TS113 Railroad Tester**

- AC current transformer facilitates minimal voltage drop
- On time measurement at any rate in excess of 30 pulses per minute
- An adjustable Pointer Stop for observation of peak reading stabilization
- A current-limiting diode prevents overload damage
- Includes black padded nylon Carrying Case and Test Lead Set

| Ordering Information      |                |
|---------------------------|----------------|
|                           | Catalog Number |
| TS113 Railroad Tester     | 12113          |
| Accessories               |                |
| Replacement Test Leads    | 07545          |
| Replacement Carrying Case | 00834          |



## TS113 Railroad Tester

### Specifications

| DC Voltage                                      |   |                                     |  |
|---|---|-------------------------------------|--|
| Ranges  | Accuracy  | Specifications                      |  |
| 0.25V, 0.6V, 3V, 15V, 60V, 150V, 300V, 600V     | ± 2% of Full Scale  | 1,000 Ohms per volt                 |  |
| DC Current                                      |   |                                     |  |
| Ranges  | Accuracy  | Specifications                      |  |
| 15mA, 60mA, 300mA, 1.5A, 6A, 30A                | ± 2% of Full Scale  | 250 mV                              |  |
| AC Voltage                                      |   |                                     |  |
| Ranges  | Accuracy  | Specifications                      |  |
| 3V, 15V, 60V, 150V, 300V, 600V                  | ± 3% of Full Scale  | 300 Ohms per volt                   |  |
| AC Current                                      |   |                                     |  |
| Ranges  | Accuracy  | Specifications                      |  |
| 6A, 30A   | ±3% of Full Scale   | 250 mV                              |  |
| Resistance                                      |   |                                     |  |
| Ranges  | Center Scale  | Accuracy                            |  |
| Rx1   | 6Ω  | ± 5.0 of arc                        |  |
| Rx100   | 600Ω  | ± 2.5 of arc                        |  |
| Rx1000  | 6000Ω   | ± 2.5 of arc                        |  |
| Code Measurement Specifications                 |   |                                     |  |
|   | Ranges  | Accuracy                            |  |
| On Time   | 0-100%  | ± 2% of Full Scale from 10% to 100% |  |
| Rate  | 30 to 500 cpm   |                                     |  |
| Physical  |   |                                     |  |
| Dimensions                                      | 7-1/8" (H) x 5-1/4" (W) x 3" (D), (133.4 x 181 x 76.2 mm)   |                                     |  |
| Weight  | 2.5 lbs. (1.14 kg)  |                                     |  |
| Moisture Resistance                             | 85%   |                                     |  |
| Temperature                                     | 0° - 50°C   |                                     |  |
| Power Requirements                              | One 9-volt alkaline battery<br>One 1.5 volt alkaline D-cell<br>2A Fuse, Littelfuse #AG 2A or equal<br>2A cartridge fuse (Littelfuse BLS 2 600V or Bussman BBS 2A) |                                     |  |
| Specifications subject to change without notice |   |                                     |  |

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