



Semi-auto Enamel Rater SI9100

REDUCE MEASUREMENT ERRORS WHEN CHECKING LACQUER INTEGRITY ON CANS AND ENDS



Polyurethane case and
water resistant fascia

Sencon's Semi-auto Enamel Rater checks lacquer integrity on cans and ends using the industry standard conductivity test. A small, safe voltage is applied between an electrolyte (conductive fluid) inside the can and the body of the can. The amount of resultant current flow indicates the amount of metal exposure caused by any imperfections in the lacquer.

QUICK, FAIL-SAFE SEMI-AUTOMATIC OPERATION — Auto-start and auto-save functions eliminate button pressing for faster operation and more tests. The gauge monitors insertion and removal of cans on the stand, starting and completing the test automatically.

BUILT-IN RELIABILITY — The SI9100 monitors the electrolyte level and the body contact before and throughout the test, since a fault with either of these will create a "good" reading, regardless of the actual lacquer quality. Active voltage sensing at the probe tip is coupled with automatic voltage compensation to ensure consistent test conditions at all times. These fail-safe features ensure that each test is performed correctly.

USER FRIENDLY — Soft touch keys assist accurate data entry. Multi-language support makes for quick and easy operation in different regions. All set-up and configuration can be done from the front panel. Three levels of security prevent inadvertent adjustment of system settings.

SUPERVISOR CONTROL OPTIONS — help to combine practical and flexible operation with fully reliable results. Optional screen blanking during the test cycle prevents operators bypassing cans with high mA readings before the result is recorded. A user definable overload value allows easy integration with in-house data analysis software.

INTERNAL BATCH REPORTING — Push-button batch and can number displays allow measurements to be grouped in batches. The internal computer will calculate batch statistics and send data to an externally connected computer in a variety of formats. The gauge can store up to 2000 readings as a batch, as well as multiple batches. Statistical information about the batch is displayed during the batch test. At the end of the batch the readings can be output to a printer or computer in tabular format together with the statistical information.

DURABLE DESIGN GIVES VALUE FOR MONEY — Recessed connectors with strain protection prevent damage. Corrosion-proof polyurethane casing and waterproof fascia designed to withstand the factory environment—rated to IP65—ensures maximum durability with minimal maintenance.

High resolution electronics with advanced test monitoring features in a rugged waterproof casing

BENEFITS

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| Quick, fail-safe semi-automatic operation |
| Built-in reliability |
| User friendly |
| Supervisor control options for flexible data control |
| Internal batch reporting |
| Durable design gives value for money |

Supported by a wide range of Sencon stands and adapters for many types of metal packaging

ACCESSORIES

see relevant pages for full details

Sencon's **General Can Stand** and **Beverage Can Stand** integrate with the SI9100 to maintain maximum test accuracy and flexibility.



The Sencon **Superstand** allows the full benefits of the gauge to be used with large cans, bottle-cans and aerosols.



Sencon **End Adapters** are available in two diameter ranges, with easy interchangeable adapters for different end shapes, also for enamel rating PT caps.



The Sencon **Cut Sheet Sample Adapter** allows rapid and accurate testing of lacquer integrity on coated sheets.



FEATURES

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| Electrolyte level check with test interlock |
| Remote voltage sensing |
| Body contact check with test interlock |
| Test voltage accuracy: $\pm 1\%$ (0 to 100 mA range) |
| High current display precision: 0.01 mA up to 50 mA |
| Large range to 500 mA with electronic current limit |
| Rating Duration: 2s to 99s |
| Test timer user configured. e.g. will freeze and hold reading at 4s |
| Optional screen blanking during test cycle |
| Batch test facility with calculations of mean, range and standard deviation |
| Reverse polarity and free run modes for defect analysis |
| Printer port with user selected report formats (RS232) |
| User definable overload value |
| 8-pin and 5-pin connections (5-pin does not allow voltage testing) |

Due to continual development, product details may change. Please consult Sencon directly for the latest specifications.

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