Semi-auto Enamel Rater

SI9100

REDUCE MEASUREMENT ERRORS WHEN CHECKING LACQUER INTEGRITY ON CANS AND ENDS

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

Polyurethane case and water resistant fascia

BENEFITS
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.	

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.

FEATURES
Electrolyte level check with test interlock
Remote voltage sensing
Body contact check with test interlock
Test voltage accuracy: ±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)

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