SENCON
SENSING • TESTING • GAUGING

Si Gauges

Semi-Automatic Enamel Rater





The all-new SI9200 combines enhanced electronics with an icon-driven colour HMI and Sencon's proven semi-automatic enamel rating technology for accurate lacquer integrity testing.

Using the industry-standard conductivity method, a low, safe voltage is applied between electrolyte inside the can and the container body. The resulting current indicates metal exposure caused by coating defects. The SI9200 is compatible with existing Sencon 8-pin stands and adapters and is designed for reliable production use.



- **Icon-driven colour LCD with tactile membrane keypad for fast, fail-safe semi-automatic operation**
- **High-resolution electronics with continuous self-monitoring to ensure accurate and repeatable results**
- **IP65-rated, water-resistant enclosure for production environments**
- **Integrated VESA 100 × 100 mounting plate for monitor arm installation, reducing exposure to electrolyte splashing**
- **Supervisor controls and batch reporting for secure data management**

QUICK ASSIST

VESA

Ordering Information

CODE	DESCRIPTION
SI9200	Semi-Automatic Enamel Rater

Please Note: To use this gauge you will also need a Sencon Can Stand or Adapter (8-pin only) such as those shown below.

Accessories

CODE	DESCRIPTION	
SI9201*	Beverage Can Stand	Self-checking can stand for straight walled or necked cans (only works with SI9200)
SI9202*	General Can Stand	Self-checking can stand designed to accept a wide range of cans (only works with SI9200)
SI9203*	Superstand™	Self-checking can stand for outsize products up to 190mm diameter (only works with SI9200)
SI9101	Beverage Can Stand	For straight walled or necked cans.
SI9102	General Can Stand	Designed to accept a wide range of cans.
SI9103	Superstand™	For outsize products up to 190mm diameter.
SI9019-8	Ends/Caps Enamel Rater	For a wide range of ends and caps.
SX1000	Data-Bridge Software	Adds data logging functionality to gauges with only an RS232 serial interface.

*Only compatible with the SI9200 Enamel Rater.

ENAMEL RATER ACCESSORIES

A complete range of accessories is available to complement the SI9200 Enamel Rater

Beverage Can Stand



General Can Stand

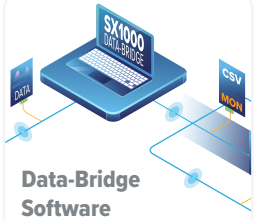


Superstand™ for outsize products



Ends Adaptor

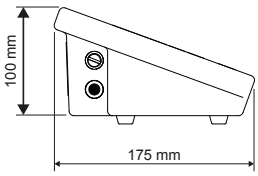
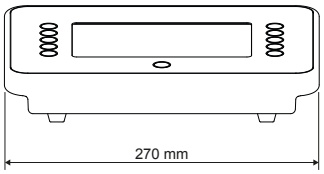
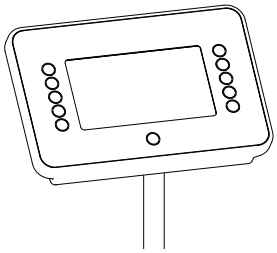




Data-Bridge Software

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TECHNICAL SPECIFICATIONS

Maximum Batch Size:	1 to 99 cans
Measurement Features:	Lacquer leakage current (rating current)
Test Voltage Accuracy:	±1% (0 to 100mA range)
Display Precision:	0.01mA up to 50mA
Current Range:	0 – 500mA with electronic current limit
Rating Duration:	2s to 99s
Data Storage:	2000 readings (approximately)
Voltage:	100 – 240 V, single phase, 47 to 63 Hz
Temperature Range:	0°C to 45°C (32°F to 113°F)
Relative Humidity:	0% to 80% non-condensing
Ingress Protection:	IP65
Dimensions:	  100x100 VESA mount 
Weight:	1.2kg (2.6lb) excluding PSU, cables and VESA mount
Controller:	7” color TFT LCD with wide viewing angle, icon-driven interface, and tactile membrane keypad
Mounting:	Includes a VESA 100×100 mounting plate for compatibility with standard monitor arms
Measurement Reporting:	Measurements displayed on LCD display Measurements can be output to PC or printer over serial RS232
Inputs and Outputs:	8-pin connector for connecting to accessories
Compliance:	CE marked, complies with relevant EU product directives UKCA marked: complies with relevant UK product regulations
Calibration:	Annual calibration is recommended. Calibration can be performed on-site by Sencon as part of a service visit or by returning the unit to Sencon.



Evolution of the Sencon Si Enamel Raters

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SI9200 ENAMEL RATER

An enamel rater is used to test for metal exposure by checking the integrity of internal coatings or lacquer on metal packaging. The SI9200 gauge operates in conjunction with Sencon can stands and adapters to test a wide range of cans and ends using the industry-standard conductivity method.

QUICK SEMI-AUTOMATIC OPERATION: Auto-start and auto-save functions eliminate unnecessary button presses, increasing test speed and throughput. The gauge detects insertion and removal of the can on the stand, automatically initiating and completing the test cycle.

BUILT-IN RELIABILITY: Integrated self-test features maintain consistent and controlled test conditions:

- Electrolyte level check
- Body contact check with test interlock
- Active voltage sensing at the probe tip
- Automatic voltage compensation
- High resolution electronics with advanced test monitoring

CONTINUAL, FAIL-SAFE SELF-MONITORING: The SI9200 monitors electrolyte level and body contact before and during each test, since a fault with either of these will create a “good” reading, regardless of the actual lacquer quality. Active voltage sensing combined with automatic voltage compensation ensures stable and repeatable test conditions. These fail-safe systems ensure every measurement is performed correctly.

DURABLE DESIGN GIVES VALUE FOR MONEY:

- Recessed connectors with strain protection to prevent damage
- Rugged, waterproof and corrosion-resistant polyurethane enclosure allows operation in wash- down areas
- Designed for long service life with minimal maintenance
- Included VESA mount allows mounting on a monitor arm reducing exposure to electrolyte

USER FRIENDLY INTERFACE: Full-colour, wide-viewing-angle display with icon-driven interface and tactile membrane keypad for accurate data entry and efficient operation. All configuration and setup functions are accessible from the front panel.

SUPERVISOR CONTROL OPTIONS: Three configurable security levels prevent unauthorised parameter changes. Optional display blanking during the test cycle prevents operators from bypassing high mA readings prior to result capture. A user-definable overload threshold allows integration with in-house data analysis systems.

INTERNAL BATCH REPORTING: Measurements can be grouped into batches with on-screen batch and can number display. Up to 2000 readings per batch can be stored, with support for multiple batches. Statistical data is calculated in real time and can be output to a printer or computer in tabular format together with batch statistics.

WORLDWIDE SUPPORT YOU CAN TRUST

We are committed to providing the best customer support worldwide with service engineers based in North and South America, Europe and Asia backed up with technical support from experienced industry specialists based at three technical support centers – you can trust Sencon.

Technical support is easily accessible through our ‘Quick Assist’ QR codes which offer support via WhatsApp*, email, web chat and telephone. Additionally, our online knowledge base provides support resources for all Sencon products.

***only available in Europe, Asia, Africa and Oceania**



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