

ER-1 Enamel Rater



ER-1 with can holder



ER-1 with end holder

AT2E ER-1 Enamel Rater offers a fast and accurate method to measure the integrality of internal coating of containers. A measuring will be started automatically when the electrical probe is inserted and contacts the solution inside the container.

The position of exposed metal can be detected visually by pressing the "REVERSE" button. Bubbles of gas come out on the exposed points.

Measuring principle:

The instrument applies a constant micro-voltage across the can body and an electrode immersed in the electrolytic water filled, and measuring the resulting current. Voltage during the test is 6.3 V DC. The operating range is 0 to 300 milliampere with an accuracy of resolution of 0.01 milliampere.

The cover support comprises a container mounted on a pivot. The cup is beveled to make a tight seal on the can cover. An electrode and the connection to the vacuum in the container are mounted. On the base, a valve for creating a vacuum and a movable arm, complete the electrical circuit when the assembly is inverted.

Measuring modes:

- 4 second mode: The reading will be displayed only at 4 seconds.
- Continuous mode: The changing current reading will be displayed during all the measuring time. It will not stop displaying until operator's order.
- User-defined mode: The reading will be displayed at the setting time by operator.



Operation Screen

Characteristics:

- Test the coverage of the enamel coating inside canned food, beverages, tubes and aerosols as well as the different types of ends.
- Displays an index of the amount of metal exposed by incomplete enamel coverage.
- Integrated 7" LCD touch screen and user friendly interface offers the easy-operation.
- Operator, product, sample & batch number can be memorized
- RS 232 output.
- User self-calibration.
- Detect the exposed position of metal.

Technical specifications:

- Sample range: 2-pcs can, 3-pcs can, aerosol can, tube and different types of covers
- Can sample capacity: by order
- End sample capacity: by order
- Measuring range: 0 to 300 mA
- Resolution: 0.01 mA
- Accuracy: $\pm 2\%$ F.S.
- Power supply: AC 110 - 240 V 50/60 Hz
- Data output: RS232 serial output
- Main frame dimension: 212(L) x 185(W) x 150(H) mm
- Can holder dimension: 230(L) x 235(W) x 400(H) mm
- Net weight: 5 kg (including can holder)

Optional parts:

- Tube holder
- End holder (including foot switch and integrated vacuum generator)
- End holder (including foot switch and integrated vacuum pump)

