

**PARTIAL DISCONNECTION CHECKER
MODEL ODC - 489
SPECIFICATION**

Patent pending No.2012-162082(Japan Patent Pending)

1, Summary

ODC -489 is an apparatus that checks the partial disconnection state (incomplete lead soldering at voice coil and frame) of speaker. GO /NG indication by LCD display and buzzer.

2, Measurement Algorithm procedure

Step 1: Direct-current resistance (DCR) measurement at micro current.

Step 2: Load current measurement of a load operating state by pulse signal.

Step 3: Direct-current resistance measurement (2nd step) at micro current.

When above the measurement have performed from step 1 to step 3, it judges as compared with a good product. Also concerning the acceptance and rejection criteria, when the difference between measurement value of checking product and measurement value of good product is over set value of good product, it is determined as NG (partial disconnection).

3, Operation procedure

Step 1: Setting the conditions

Step 2: Obtaining the data of the criteria

It measures the good product. After that, it stores the box No and measured value of good product.

Step 3: Performing TEST

It measure test product. And after that, it judges the test product be based on the criterion of the measured the good product's data.

4, Performance

4-1) Direct-current resistance measurement

- ① Measurement range : $2\Omega \sim 200\Omega$ (Measurement current = 1 mA)
- ② Display resolution : 0.1Ω
- ③ Measurement time : 0.2 S

4-2) Pulse load measurement

- ① Pulse duration : 0.1S \sim 10.0S (In 0.1S increments)
- ② Pulse width : 0.4mS1 \sim 99.9mS (Time of each ON/OFF cycle)
- ③ Pulse voltage : 0.1Vp-p \sim 40Vp-p (In 0.1Vp-p increments)
- ④ Pulse duty ratio : Alternate between 1 : 3 and 3 : 1

5, Function

- ① Auto start mode adoption : As performing test
- ② DCR measurement method adoption : As measuring direct-current resistance at micro current.
- ③ Presetting inspection pattern : It is possible to preset 10 types.

6, The other specification

- ① Power source / power consumption : AC100, 110, 120, 200, 210, 220, 230, 240V
Internal change: $\pm 10\%$ 50Hz/60Hz
※Voltage when shipped set at the discretion of the user.
- ② Cabinet dimensions : 300 (W) X 100 (H) X 260 (D) excluding protrusions
- ③ Weight : Approx. 8 kg

7, Appearance figure



Design and specification are subject to change without notice