

RC 910.06

Manual of Testing

CALIBRATION OF A TIMER

1. SCOPE

This method describes the procedure for calibrating an elapsed time device by reference to a stopwatch.

2. APPARATUS

- (a) Calibrated stopwatch.
- (b) Worksheet

3. PROCEDURE

- (a) Record the laboratory identification of the timer, stopwatch and the date of calibration.
- (b) Check the calibrated stopwatch in accordance with Test Method RC 910.05, over the same selected time intervals for which the timer is to be calibrated. For an interval which is not an integer of 10 sec the stop watch shall be calibrated at a greater and lesser time intervals.
- (c) Check the timing device over the selected time intervals for which it is to be used.
- (d) Start the timer and stopwatch simultaneously. When the time elapsed signal is given, immediately stop the stopwatch.
- (e) Record time elapsed.

- (f) Repeat (d) and (e) a further two times.

- (g) Repeat steps (d) to (f) for other selected time intervals.

- (h) If the timer is part of a machine, determine if the actual elapsed time is within any specified limits required for the machine.

- (i) If the timer is not within the specified limits, adjust if possible and repeat step (c) to (g).

4. CALCULATIONS

Calculate mean elapsed time and mean correction (see Note 1).

5. REPORTING

Maintain a copy of the worksheet in the laboratory.

NOTE**Note 1**

In use, the correction should be added to the timer setting, when required, to obtain the true time interval.