

FifeX Reaction Timer™

Use of Kit

The FifeX Reaction Timer is an educational resource for all ages, giving users the ability to actively explore the relationship between speed and distance and how different factors affect their own concentration and reaction time.

Kit Contents

Documentation

1 x FifeX Reaction Timer™

1 x 5V 1A DC power supply

Operating Instructions

1. Remove the FifeX Reaction Timer™ from the box.
2. Plug in DC power supply.
3. Wait for LCD to say 'Press Start'.
4. Press the 'Start' (green) button - the hazard LED will begin to flash on and off.
5. After a random time (between 1 and 9 seconds) the LED will remain on. (If you have opted for an audio as well then a horn will also sound at this point).
6. Press 'Stop' (red) button as quickly as possible.
7. The LCD will now display 'Reaction Time' (in seconds (s) or milliseconds (ms)), 'Thinking Distance' (in metres (m)) and 'Braking Distance' (in metres (m)).
8. Turning the 'Speed' and 'Road Condition' selector knobs will allow the user to investigate how 'Thinking Distance' and 'Braking Distance' change with speed and road conditions.
9. Press 'Reset' (yellow) button to return to the beginning.

If the user presses the 'Stop' button before the LED remains on the LCD will say 'Too Early'. If the user fails to press the 'Stop' button within 10 seconds the LCD will say 'Too Late'. After both instances, pressing the 'Reset' button will be required.

Operating Instructions with Foot Pedals

1. Remove the FifeX Reaction Timer™ from the box.
2. Plug in foot pedal and place on an even floor surface.
3. Plug in DC power supply.
4. Wait for LCD to say 'Press Start'.
5. When the foot pedals are active neither the 'Start' (green) or 'Stop' (red) buttons work on the device.
6. Press and hold the green foot pedal with your foot. The hazard LED will begin to flash on and off.
7. After a random time (between 1 and 9 seconds) the LED will remain on. (If you have opted for an audio as well then a horn will also sound at this point).
8. Release the green foot pedal and press the red foot pedal with your foot.
9. The LCD will now display 'Reaction Time' (in seconds (s) or milliseconds (ms)), 'Thinking Distance' (in metres (m)) and 'Braking Distance' (in metres (m)).
10. Turning the 'Speed' and 'Road Condition' selector knobs will allow the user to investigate how 'Thinking Distance' and 'Braking Distance' change with speed and road conditions.
11. Press 'Reset' (yellow) on the device button to return to the beginning.

If the user releases the green foot pedal before the LED remains on the LCD will say 'Too Early'. If the user fails to release green foot pedal and press the stop foot pedal within 10 seconds the LCD will say 'Too Late'. After both instances, pressing the 'Reset' on the device button will be required.

Online Support

Further information on experiments can be found at <http://www.fifex.co.uk/reactiontimer>

Safety

- 1. The FifeX Reaction Timer™ must only be used with the supplied regulated power supply. If this is lost or suspected damaged in any way, contact your supplier immediately.**
- 2. The FifeX Reaction Timer™ should always be turned off when not in use.**
- 3. FifeX Ltd accept no responsibility for injury or damage caused by the misuse of the FifeX Reaction Timer™**

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