TTS Log-Box Data Logger   SC10193

The Log-Box is able to:

- Record temperature, light, sound **and** pulse.
- Easy-to-use and a handy size to use in school or take on trips.
- Adjust to different countries units of measurement.
- Have three external probes connected to take accurate measurements.

The staff and pupils at The Valley Community Primary School in Bolton have trialled the TTS Log-Box and would recommend it to other schools. They have created some child-friendly cards to help you to introduce the data logger to your class and guide you through using it.

Special thanks to The Valley for sharing their ideas. We hope you find the information useful.
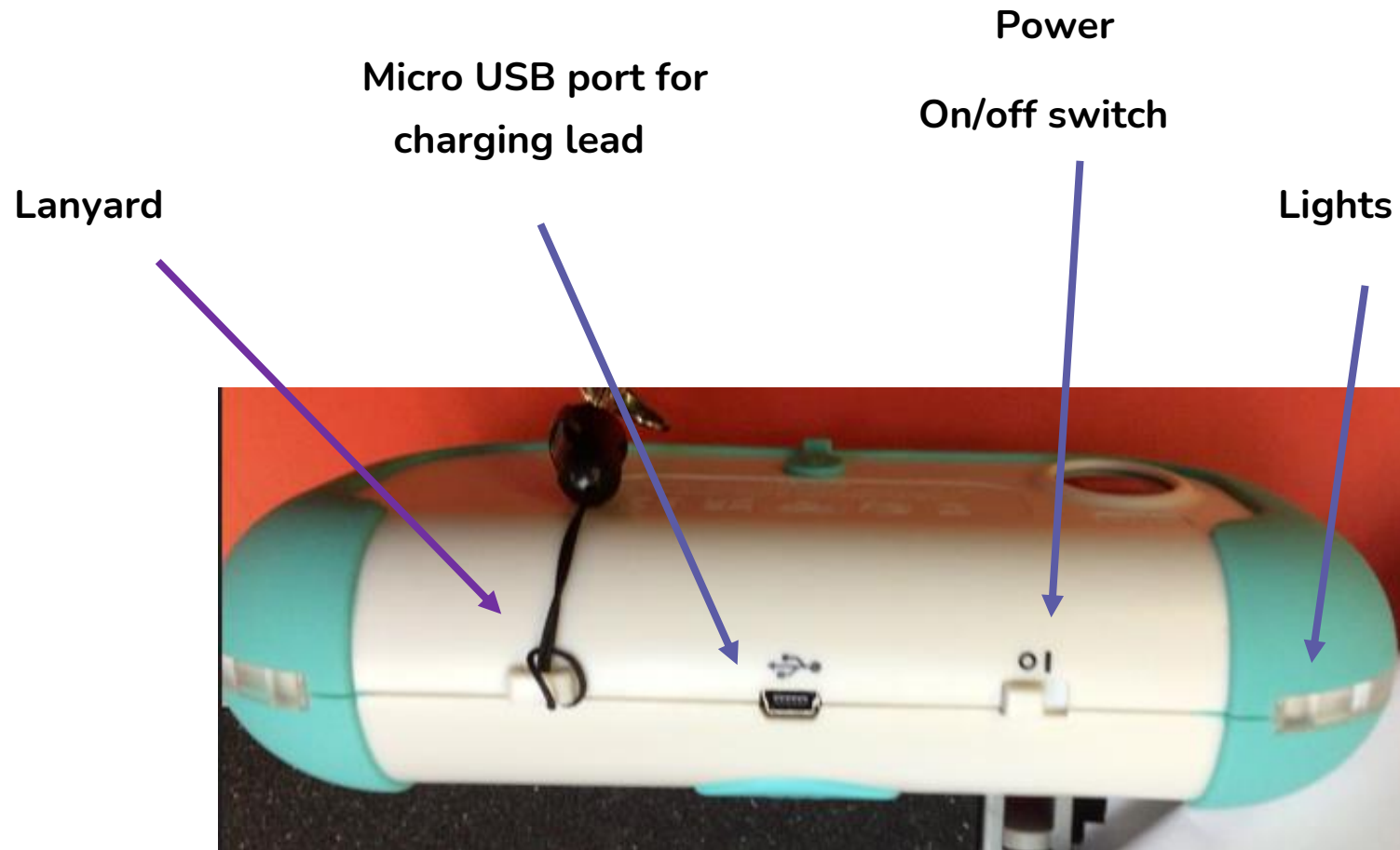
This is a data logger.

- It has sensors
- It can record data
- It can be connected to a computer

From looking at the picture, what sensors do you think it has?

Think, pair, share.
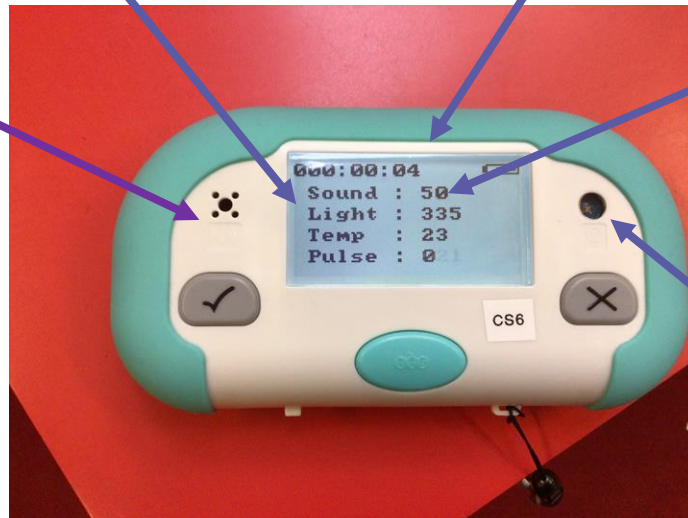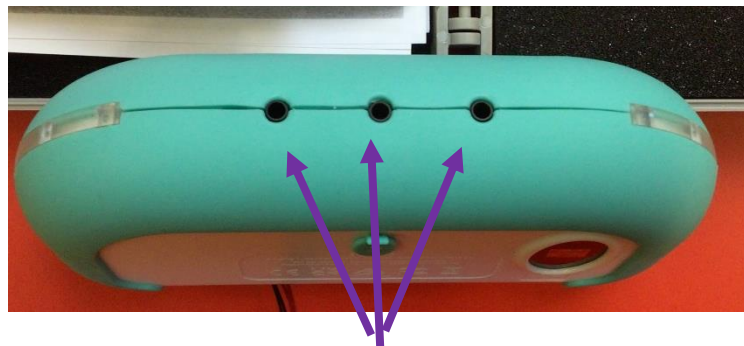
Familiarise yourself with the data logger

Power

Micro USB port for charging lead

On/off switch

Lanyard

Lights

Light reading (in Lux)

Sound reading (in decibels)

Temperature reading (in degrees

Sound Sensor

Light sensor

```
000:00:04
Sound : 50
Light : 335
Temp  : 23
Pulse : 0
```

CS6

Sockets to connect external sensors (probes)
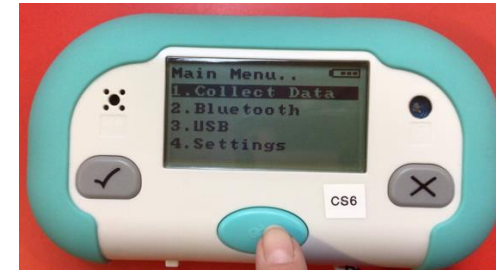
Temperature Sensor   **Pulse Monitor**

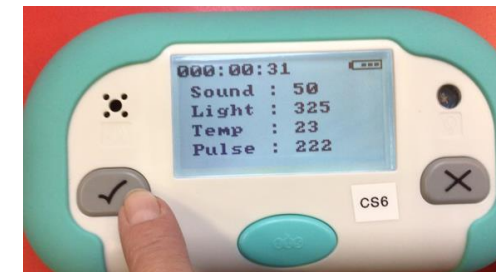## How to use the data logger- Quick Guide

1. Switch on the datalogger

2. Press any button to start

3. Press the tick button

4. You are now viewing live data

Viewing live data on the iPad: Bluetooth

1. Click on any button to start

2. Click on the blue tts button once to highlight Bluetooth
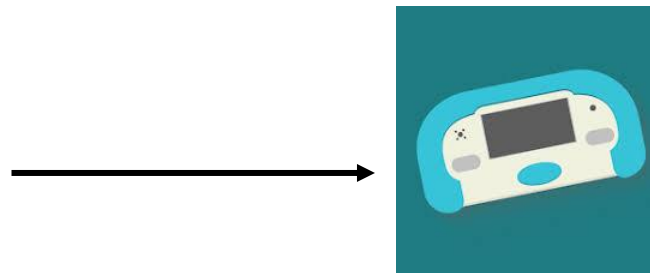
3. Press the tick button

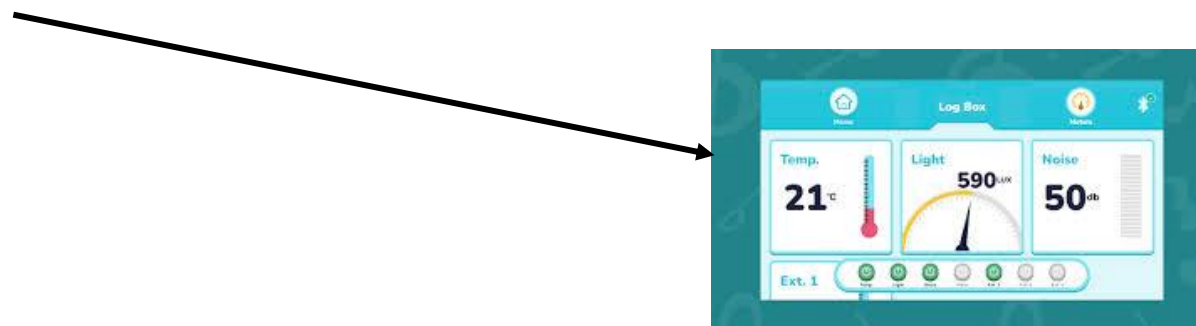4. Press the blue tts button once to highlight Monitor

5. Press the tick button again

On the iPad: Bluetooth

1. Open the data logger app

2. Click on View Meters

3. Select temp, light and noise

4. Move your hand over the data logger's light sensor. Clap hands.

Activity- Recording Data

Have a map of the school.

Use the data logger to take readings from various locations around the school.

You are going to choose six locations. Each group will visit one location and record the readings from each location on the sheet.

Record the readings from each location on the sheets below. Recording light, temperature and sound.

Once you have all your recordings, work out where the Coolest, Warmest, Brightest, Darkest, Nosiest and Quietest places are and discuss findings.

	Location	Reading			Location	Reading	
1			lux	4			lux
			°C				°C
			dB				dB
2			lux	5			lux
			°C				°C
			dB				dB
3			lux	6			lux
			°C				°C
			dB				dB

	Coolest	Warmest	Brightest	Darkest	Noisiest	Quietest
Location						