

Specifications

Colorimeter Performance

Stand alone use

- 6 preset wavelengths using LED technology.
- Auto-Calibration at the touch of a button.
- Switch between Transmission or Absorption display.
- Standard cuvette size used.

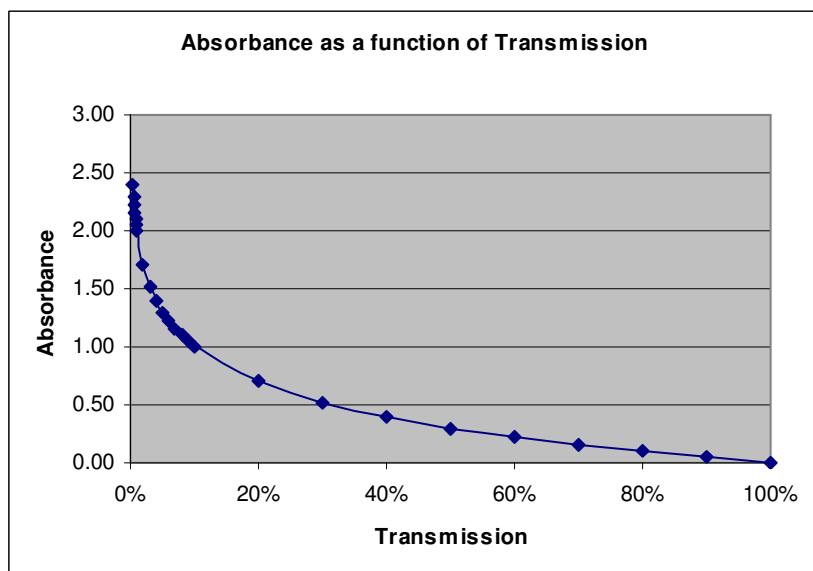
Use with a datalogger

- Connect to a datalogger using a five pin din cable.

Ranges, select from

- Red, working at 650nm.
- Red, working at 629nm.
- Amber, working at 590nm.
- Green, working at 525nm.
- Blue, working at 470nm.
- Violet, working at 428nm.

Absorbance versus Transmission performance



| Transmission | Absorbance |
|--------------|------------|
| 100% | 0.00 |
| 90% | 0.05 |
| 80% | 0.10 |
| 70% | 0.15 |
| 60% | 0.22 |
| 50% | 0.30 |
| 40% | 0.40 |
| 30% | 0.52 |
| 20% | 0.70 |
| 10% | 1.00 |
| 9% | 1.05 |
| 8% | 1.10 |
| 7% | 1.15 |
| 6% | 1.22 |
| 5% | 1.30 |
| 4% | 1.40 |
| 3% | 1.52 |
| 2% | 1.70 |
| 1% | 2.00 |
| 0.9% | 2.05 |
| 0.8% | 2.10 |
| 0.7% | 2.15 |
| 0.6% | 2.22 |
| 0.5% | 2.30 |
| 0.4% | 2.40 |

General

- Turn on by pressing any button.
- Turn off by holding down the buttons indicated on the label.
- Scroll through the frequency ranges using the scroll button.
- Select Transmission or Absorption
- Calibrate by inserting a cuvette full of distilled water, and press the calibrate button.
- Power source: 1 x 9V PP3 battery.

Communications

- 5 pin male to male din lead.

Software

- This product works with Logbook Graphing datalogging software.

Operating Environment

- Temperature 0°C to 50°C
- Humidity 5% to 95% non-condensing.

Remote Colorimetry with the *Logbook CM* Colorimeter

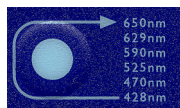
All functions on the *Logbook CM* are accessed using the three control keys on the top face of the colorimeter:



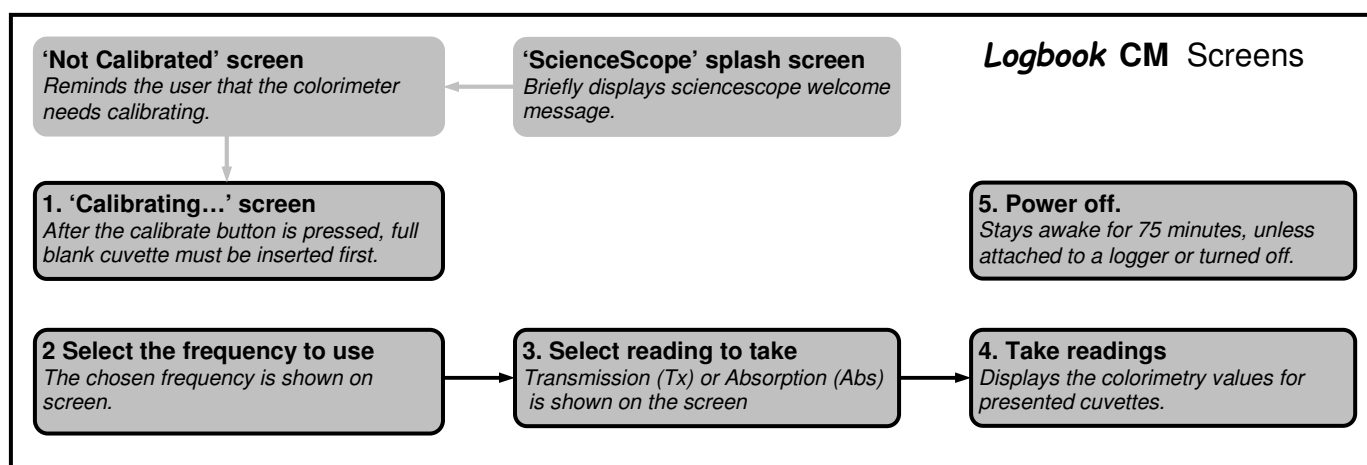
The **Calibrate** starts the auto-calibration of the colorimeter. A cuvette filled with distilled water should be in place before this button is pressed.



The **Tx/Abs** button is used to switch between Transmission or Absorption Colorimetry. The display toggles between the two outputs.



The **SCROLL** button is used to scroll between the six wavelengths of light at which the colorimeter operates. After turning on the *Logbook CM*, the unit must be calibrated before it is possible to scroll through these options.



The Colorimeter Display

1. Press the any button to turn on the colorimeter.
2. You will briefly see the *ScienceScope* splash screen.
3. You will then see the *Not Calibrated* screen.
4. When calibrated, the colorimeter will then display the measurements of transmission or Absorption at the frequency you select.
5. The unit can be turned off by pressing the two buttons indicated, at the same time.