

The ANY-maze Multifunction Remote



Overview

The ANY-maze multifunction remote control serves two primary functions: controlling tests in up to four apparatus and measuring ambient conditions using its built-in light meter, thermometer, and audible and ultrasonic sound meters.

Test control

- Four buttons control the start of tests in up to four independent apparatus.
- This can be expanded to up to 16 groups of four apparatus by adjusting the device's ID.
- Provides quiet haptic feedback to indicate whether a test started successfully.

Sensors

- The light meter measures ambient light from 0.13 to 10,000 lux.

- The thermometer measures temperatures from 0 to 100°C using a detachable, 1-metre, waterproof probe.
- The audible sound level meter measures ambient sound from 30 to 120 dBA.
- The ultrasound level meter measures ultrasound from 20 to 80 kHz, reporting peak frequency levels in decibels.
- Sensor readings are displayed on the screen and can be transmitted to ANY-maze for automatic storage in test data.

General

- The remote has a range of 30 metres, although this decreases through walls.¹
- Battery life is typically around 3 months.²

Technical specification

User interface	
Buttons	1 – 4 Test control Arrow Advances through functions Enter Freezes a reading on screen and optionally sends it to ANY-maze. Also used to make selections.
Screen	LCD display with user-adjustable backlight
Haptic feedback	Quietly signals successful test start or sensor read to the operator
Light sensor	
Range	0.13 lux to 10,000 lux (auto ranging)
Resolution	Varies: 0.01 lux at lowest range, 100 lux at highest range
Accuracy	±5%
Characteristics	Immune to ultraviolet and infrared light Unaffected by mains frequency (50/60Hz) light flicker
Thermometer	
Range	0°C to 100°C
Resolution	0.1°C
Accuracy	±0.5°C
Characteristics	External, plug-in, waterproof probe on 1-metre lead
Audible sound level meter	
Range	30dBA – 120dBA (dBA is decibels with A-weighting applied)
Frequency range	250Hz – 8KHz (class 2)
Resolution	0.1dBA
Accuracy	±2%
Ultra-sound level meter	
Range	1dB - 99dB
Frequency range	20KHz – 80KHz
Resolution	1dB
Reports	Frequency peak power to ANY-maze
Communication	
Receiver	Plugs into USB port on computer
Transmission range	30 metres line-of-sight; 5-15 metres through walls (see note 1)
Radio channels	8 user-selectable channels supports multiple systems in the same area
ID	16 user-selectable IDs for multiple remotes connected to the same PC
General	
Battery	9V PP3. Alkaline battery recommended
Battery life	3 months under typical use (see note 2). Over 1 year in sleep mode
Sleep mode	Automatically sleeps after user-selectable period; wakes on button press
Enclosure	Splashproof, operable with wet hands. Includes eyelet to attach lanyard
Dimensions	11.8 cm (L) x 7.2 cm (W) x 2.5 cm (D)
Weight	135g with battery

*Notes

1. Transmission range through walls varies significantly with wall material; for instance, the range is much shorter through thick concrete walls compared to drywall.
2. Battery life depends on multiple factors, including backlight usage, automatic sleep settings, and usage patterns, such as the frequency of sensor readings and data transmission to ANY-maze.