

Hivemind Raingauge – User Manual

System components:

- Satellite Communication Hub
- Raingauge enclosure and ‘tipping-bucket’.
- 2AAA batteries (included)

Hivemind

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Fig. 1. Hivemind raingauge model 1

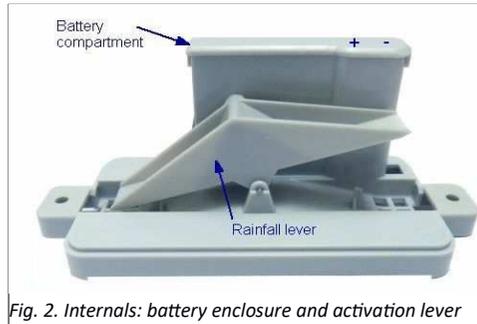


Fig. 2. Internals: battery enclosure and activation lever

Getting Started

1. **Mounting:** Install onto a level surface and affix with screws or other means.
2. **Activation lever:** the lever is for rain measurement and user interaction (fig. 2).
3. **Satellite Hub Connection Setup:** Toggle the lever 3 times until the raingauge begins to beep. It will beep for up to 30 seconds while establishing communication with the satellite hub. Replace the lid. ***This step should be repeated every time the monitor is moved in relation to the hub to ensure continued operation.***
4. **Beep codes:**
 - While connecting, the unit will beep. This will be a high frequency tone if the battery is good or a low frequency tone if the battery needs replacing.
 - Once the connection is complete, the unit will beep a single low tone followed by several rapid high tones. The number of rapid high tones indicates the connection signal strength: one beep per 10% of radio signal to the hub, eg: 5 beeps = 50% connection strength (over 20% is good).
5. **Login:** Now browse to hivemind.co.nz/login and log in (per instructions in the Hub user manual)

Maintenance

1. **Batteries:** The batteries should be replaced whenever the user graph indicates a bad battery level (approximately every 8 months).
 - The batteries are to be found inside the electronics enclosure (fig. 2)
 - Unlatch battery compartment and replace batteries. Polarity shown in fig. 2
 - **Ensure batteries are pressed very firmly into the enclosure. If not pressed down then the batteries will not make contact with the circuit.**
 - Replace the lid.
 - Perform the *Hub Connection Setup* step above.

Specifications - Raingauge

Dimensions: 150 x 81 x 60 mm

Weather proofing: IP54

Operating temperature: -20 to 40°C

Battery Life: 8 months; replaceable with 2 x AAA 1.5V Lithium or Alkaline

Resolution: 1 mm

Accuracy: 10%

Maximum distance device to hub: 10m to 50m typical (signal depends on what objects are in between)

Regulatory Compliance

This device complies with the following compliance regimes:

- US FCC: CFR Parts 15 and 25
- Industry Canada (IC) 7084A-SM220
- CE (Europe Aus/NZ): EN 300 328 Version 1.8.1, AS/NZS CISPR 22: 2009 + Amendment 1: 2009 as a class B device



Warranty

1. Purchased product warranty is 12 months from the date of purchase, day / month / year, as follows. Repair or replacement will be made to any faulty product returned to the purchasing location within that time. Hivemind will bear the cost of repair unless the product has been mistreated or operated outside specification. Hivemind will pay transit costs for only the transit of the product between the purchasing location and the repair facility.
2. Leased products have a perpetual warranty as follows. Hivemind will cover repair and shipping costs for damage from ordinary wear and tear. If the product has been mistreated or operated outside specification then the customer is liable to pay for the cost of the product and return shipping.

Other details of warranty are specified in the Hivemind Terms and Conditions at <http://hivemind.co.nz/agreement>.