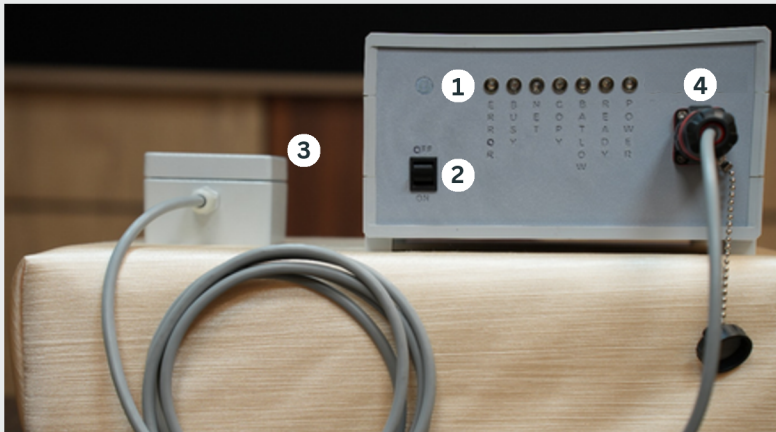


User Manual

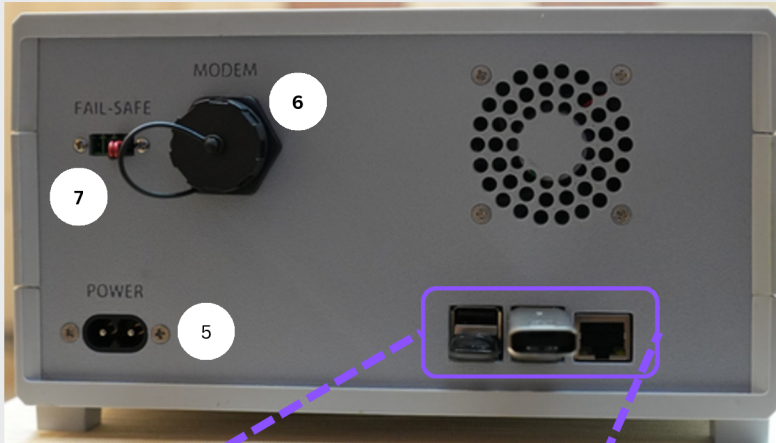


Vispotgraph Standard





Front View



Rear View

- 1 **LED Indicators:** Highlights different operations performed
 - POWER:** Indicates that the system is ON
 - READY:** Indicates that the system is ready to operate
 - BATLOW:** Indicates low battery (20%)
 - COPY:** Indicates that the collected data is being copied to the pen drive locally
 - NET:** Indicates that the device is connected to the internet
 - BUSY:** Indicates data collection
 - ERROR:** Indicates any possible error in the system

- 2 **SWITCH:** To turn on/off the System.

- 3 **SENSOR BOX**

- 4 **CONNECTOR:** To connect the geo sensor to the system

- 5 **AC Power Supply**

- 6 **USB Connector** to provide power to modem

- 7 **FAIL SAFE CONNECTOR:** Fail Safe module can be connected to bring back the system in a safe state in case of any OS failure.

Note: Pin 1 and Pin 2 should be shorted to make the system on in case the fail-safe module is not connected to the system.



OS Pendrive has to be inserted in the USB 3.0 and should not be removed when the system is ON.

KEY Pendrive has to be inserted in the USB 2.0 and is used to configure the system in Offline mode.



COPY Pendrive has to be inserted in the USB 3.0 and is used to collect report from the system in Offline mode.

Instrument Operations

1

Instrument Preparation

Remove the **Vispograph** instrument and all accessories from the carrying bag. Ensure that the following items are available and in good working condition:

- Vispograph Instrument
- Geophone Sensor
- Geophone Cable
- Power Adapter/Power Cable
- Aluminium Mounting Plate
- Nuts and Bolts
- Ground Spike (Nail)
- Fuse
- Other supplied accessories

2

Insert the Fuse

Insert the supplied fuse into the designated fuse holder before powering on the instrument.

3

Power Connection

Connect the instrument to a **220 V AC power supply** using the supplied power adapter/power cable.

This power connection is required for:

- Online data collection
- Charging the internal battery

4

Geophone Sensor Installation

For **temporary data collection**, place the geophone sensor at the desired monitoring location.

- Secure the sensor using the supplied **ground spike (nail)**.
- Ensure that the **arrow mark on the geophone is pointing toward the blasting site**.

For **permanent or long-term** data collection

- Fix the geophone sensor on a concrete base using the supplied **aluminium mounting plate, nuts, and bolts**.
- Install both the **geophone sensor** and the **Vispograph Instrument** inside a weatherproof protective enclosure.
- Ensure that the enclosure protects the equipment from rain, dust, moisture, vibration, and other environmental conditions.

5

Connect the Geophone Cable

Connect the geophone sensor cable to the instrument.

- Ensure that the connector is properly aligned.
- Match the connector pins correctly before tightening.
- Do not apply excessive force while connecting the cable.

6

Power On the Instrument

Switch on the instrument using the main power switch.

Allow the instrument some time to complete the **initialisation process**.

7

Verify Instrument Status Indicators

After switching on, verify that the LED status indicators are showing things correctly.

- **READY - ON:** Instrument is ready to process events.
- **BUSY- ON:** Instrument is capturing event or initialising.
- **INTERNET - ON:** Instrument is connected to the internet.
- **OFFLINE - ON:** The provided **Key** pen drive is not inserted.

The device will still capture events even if the internet connection is not present, but the latest configurations might not be updated.

Look out for other LED indicators to understand how the device is functioning.

Instrument Operations

8

Configuration

The provided **Software Manual** explains how to configure the device. Please follow it to make any changes. You should verify that the software indicates **Synchronised** in order to ensure the latest updates have reached the device.

9

Start Monitoring

At this point, the device is ready to monitor blast events.

- The reports will be available through **email** automatically to the IDs provided during the setup process.
- You can also follow the Software Manual to view the reports using the provided **Desktop Application**.
- The reports automatically copied to the provided **Data** pen-drive if it is inserted in the device. Wait for the **COPY** LED to stop to ensure all the data is copied safely. You can use the Software Manual to learn how to get reports from the copied data.

10

Important Precautions

- Ensure the geophone is firmly fixed before monitoring begins.
- Always orient the geophone arrow toward the blasting source.
- Use only the supplied power adapter and accessories.
- Protect all connectors from moisture, dust, and physical damage.
- Never disconnect the geophone cable while data acquisition is in progress.
- Verify that sufficient battery power or AC power is available before deployment.
- For online monitoring, ensure a stable Internet connection through Mobile Hotspot, Wi-Fi, or LAN.
- Confirm that the instrument and software are successfully synchronised before starting data collection.
- Periodically check the battery status during extended monitoring.
- Handle the instrument carefully during transportation.
- Always store the instrument in its carrying bag after use.
- Keep the weatherproof enclosure securely closed during outdoor operation.