

Operating Manual

Flow Pod-

Instructions for Use and Calibration

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Important

1. Calibrate only in Safe Area

A safe area is one where there is no requirement for Hazardous Area Certified Equipment.

2. Hazardous Area Classification

The Flow Pod has **NOT** been certified to any Hazardous Area Classification

Therefore, when the Flow Pod is connected to a GA 2000 Gas Analyser, the Hazardous Area Classification is invalid.

It is the responsibility of the operator to determine the protection concept and classification required for a particular application.

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1. Introduction

The Flow Pod is designed to be used with the GA2000 and GA2000 plus Gas Analysers for measuring gas flow from boreholes on landfill sites and contaminated land. The standard Flow Pod will measure a flow in the range 0.1- 12 litres/per hour.

It is recommended that the pod is plugged into the Gas Analyser prior to switching on the unit. The Flow Pod is supplied with two lengths of tubing- an inlet tubing (fitted with a male quick release coupling) and an outlet tubing (fitted with a female quick release coupling). The inlet tubing connects the monitoring point at the borehole with the Flow Pod, the outlet tubing allows the gas to be vented away from the operator. Gas flowing from the borehole is routed to a flow sensor in the pod and then exhausted to the atmosphere. The gas flow rate will be displayed on the relevant reading screen of the Gas Analyser.

If necessary, different types of connectors can be supplied for the inlet tubing at the monitoring point.

Intrinsic Safety

Please be aware that the Flow Pod has not been certified as intrinsically safe. If the pod is used with the GA2000/GA2000 Plus Gas Analyser, then the intrinsic safety certification of the Gas Analyser will be invalidated whilst the pod is in use.

Important

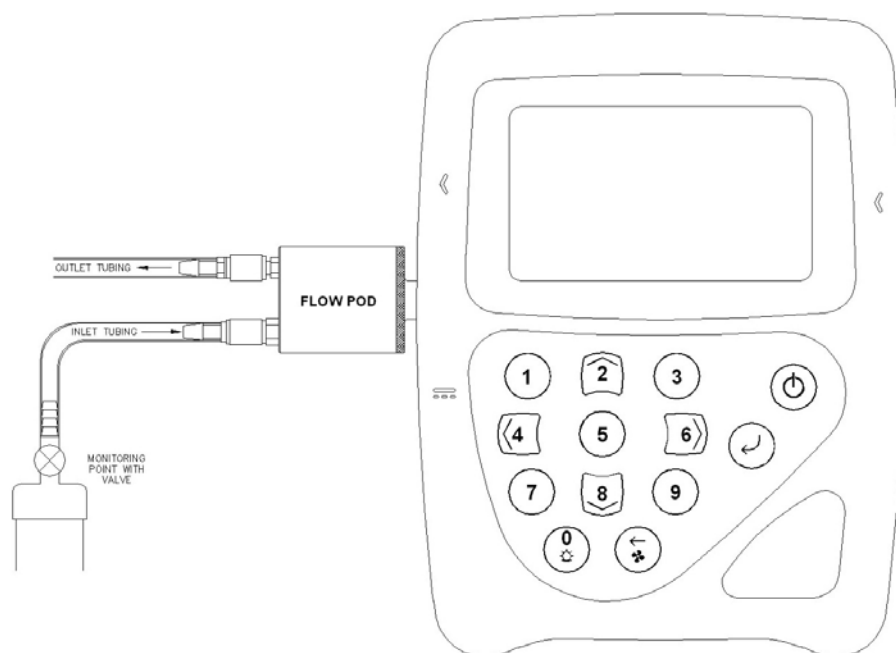
It is vital that the Flow Pod is zeroed before use. When taking flow reading ensure the open end of the outlet tubing is protected from any wind. The wind can cause “ buffeting” in the tubing and effect the flow reading from the boreholes.

This also applies when zeroing the Flow Pod as both inlet and outlet tubing will be open to the atmosphere.

2. Using the Flow Pod

Important: Every time a Flow Pod is used, always follow this sequence of actions to ensure correct use-

1. Connect the Flow Pod to the unit prior to turning on. It is recommended that the Flow Pod is connected to the Gas Analyser before switching on the unit.
2. Zero the Flow Pod using the Calibration facility. (See how the user can zero the flow pod)
3. The Flow Pod is connected to the Gas Analyser via the communications port. The diagram below shows the arrangements-



Insert the Flow Pod plug connector into the communications port next to the exhaust port. Connect the inlet tubing to the Flow Pod with the male quick release coupling and at the other end to the monitoring point. Connect the outlet of the tubing to the Flow Pod with the female quick release coupling and place the end of the outlet tubing away from the Gas Analyser. Ensure all connections are airtight and that the end of the outlet tubing is shielded from any wind that may be present.

Switch on unit

Flow Pod- Infra- red Gas Analyser

Using the Flow Pod

How the User can Zero the Flow Pod

- 1. Key 1 Menu**
- 2. Select Field Calibration option**
- 3. Press Store key for Calibration MENU**
- 4. Select ZERO Channel**
- 5. Select ZERO Flow Pod from calibration MENU and press store key**
- 6. Analyser will confirm calibration and return to check calibration screen**
- 7. Press Key 1 to return to main Gas read section.**