

## HARDWARE DETAILS



## CONFIGURATION MODES

G7 supports six different modes, with settings defined from G7's configuration profile in Blackline Live. Modes allow G7 to temporarily change its behavior, including enabling pump or muting gas alarms to prevent false alerts. Entering a pumped configuration mode is how the user switches G7's operation from diffusion to pump.

### Available configuration modes

**Normal mode** is the configuration used for everyday operation. G7 operates using this mode as a default.

↻ **Pre-entry mode** is used for testing an environment prior to entering.

↻ **Leak check mode** can be used when checking for gas leaks in a particular area.

↻ **Pump run mode** can be used to continually run pump with no timeout.

**SCBA mode** is used when the device user is wearing a self-contained or supplied air breathing apparatus.

**High risk mode** is used for general high-risk situations. This mode does not have a timeout.

**NOTE:** ↻ indicates a pumped mode.

## USING CONFIGURATION

### Entering a mode

1. Press the OK button to enter G7's **Main menu**.
2. Use the up and down arrows to navigate to **Modes** and press the OK button.
3. Select the desired mode.
4. Select **Yes** to confirm the mode.
5. G7's screen will invert and the banner will

### Exiting a mode

1. Press the OK button to enter G7's **Main menu**.
2. Use the up and down arrows to navigate to **Modes** and press OK.
3. Select **Normal mode**.
4. Select **Yes** to confirm. display your current mode.

### Mode timeout

Each mode (excluding normal, high risk and pump run mode) has a timeout period. After this period has elapsed, you can extend or leave the mode. If you do not make a choice in 30 seconds, G7 will return to normal mode.

## USING G7'S PUMP

### Sample with pump

1. Attach a quick-connect to your desired length of hose.
2. Attach the quick connect to the stack by lining up the guides and twisting clockwise.



### Turning pump on

1. Ensure G7 is equipped with a Multi-pump cartridge and pumped modes, such as pre-entry, leak check or pump run.
2. Press the OK button to enter G7's Main menu.
3. Use the up and down arrows to navigate to Modes and press the OK button, then select the desired mode.
4. Attach hose and perform a block test by following the instructions on G7's screen.
5. G7's screen will invert, and the pump icon ↻ in the banner will indicate pump is running.

### Turning pump off

To turn pump off, enter any non-pumped mode.

## BLOCK TESTS

A block test is performed before using pump to ensure that your hose and pump cartridge are in working order.

G7 has two ways of performing a block test: automatic and manual.

Repeat as necessary

### Automatic block tests

G7 will automatically perform a block test before you enter a pumped mode.

Attach hose to pump and follow the instructions on G7's screen to complete the test.

If G7 passes the block test, pump will start. If the block test fails, G7 will return to the previous mode and pump will not start.

While performing an automatic block test, G7 is in a safe state where gas alerts will not be triggered. This prevents false alerts from residual gas in the hose.



### Manual block tests

A manual block test can be performed any time pump is running. To perform a manual block test:

Ensure you are in a pumped mode, with a quick connect and hose attached to your device.

1. Block the end of your inlet.
2. Wait for the yellow warning alarm to sound.
3. Unblock the end of your inlet.
4. If the yellow warning alarm silences, your equipment is safe to use.

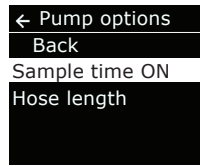
### Yellow warning alarm

A yellow warning alarm will be triggered when G7's pump becomes blocked. "Pump blocked" will display in the banner. Press and hold the up and down arrows to silence. The alarm will return after two minutes until the block is resolved.

## PUMP OPTIONS MENU

When a Multi-gas pump cartridge is attached to G7, a new menu option called Pump options will appear in G7's main menu, under Settings.

From this menu, you can customize the following:



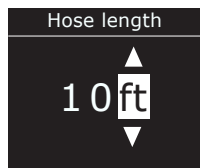
Settings > Pump options

### Sample timer

From this menu, you can enable or disable the sample timer. The sample timer will count down from the Pump details screen and beep when one sample has been pumped to and read by G7.

### Hose length

Using the up, down and OK buttons, you can set the hose length you are using on your device in meters or feet.

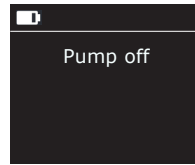


Settings > Pump options > Hose length

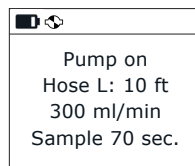
## PUMP STATUS SCREEN

When a Multi-gas pump cartridge is attached to G7, a new secondary menu screen called Pump status is available. To access this screen, press the down arrow from G7's Gas status screen.

From this screen, you can see the following:



Pump details with pump off



Pump details with pump on

- **Pump status**  
Off or on
- **Hose length**  
An estimate of the hose attached to pump, set from the **Pump options** menu
- **Flow rate**  
Measured in real time
- **Sample timer**  
Available if enabled from the pump options menu. This is automatically calculated using your hose length.

## LEARN MORE

Visit [support.blacklinesafety.com](https://support.blacklinesafety.com) for technical support and access to the following materials.

- Technical User Guide
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