blacklinesafety

G7

Multi-gas pump cartridge

HARDWARE DETAILS

Stack

Filter

Screw

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, such as enabling pump or muting gas alarms to prevent false alerts. Entering a pumped configuration mode is how G7 switches operation from diffusion to pump.

Available configuration modes

Normal mode is the configuration used for everyday operation. G7 will operate 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.

⟳ Indicates a pumped mode

USING CONFIGURATION MODES

Entering a mode
1. Press OK to enter G7's main menu
2. Use the up and down arrows to navigate to *modes* and press OK
3. Select the mode you wish to enter
4. Confirm that you want to enter the mode by selecting *yes*
5. G7's screen will invert and your information banner will display your current mode

Exiting a mode
1. Press OK 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. Confirm that you want to return to normal mode by selecting *yes*
5. G7 will return to normal function

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 PUMP

To sample with pump, attach a quick connect to your desired length of tubing. 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. From G7's main or secondary menu, select the pumped mode you wish to enter
3. Attach tubing, and perform a block test by following the instructions on G7's screen
4. G7's screen will invert, and the pump icon ⟳ will show in the info bar to let you know pump is running

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

BLOCK TESTS

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

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

Automatic block tests

G7 will automatically perform a block test any time you try and enter a pumped mode. Attach your tubing to pump, and follow the instructions on G7's screen to complete the test. If your equipment passes the block test, pump will start. If you fail, you will return to the previous mode and pump will not start.

⚠ Residual gas in the tubing may cause G7 to go into alarm during an automatic block test. Ensure your tubing is clear when entering a pumped mode test to avoid false alerts.

Manual block tests

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

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

2. Plug the end of your inlet

3. Wait for the yellow warning alarm to sound

4. Unplug the end of your inlet

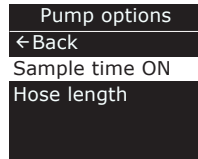5. If the yellow warning alarm silences, your equipment is safe to use.

Yellow warning alarm

Anytime G7's pump becomes blocked a yellow warning alarm will sound and pump blocked will display in the banner. Press and hold the up and down arrows to silence. The alarm will return after 2 minutes, until the block is resolved.
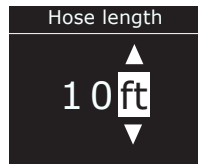
PUMP OPTIONS MENU

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.
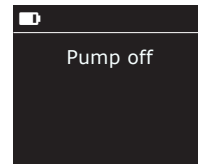
Settings > Pump options > Hose length

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.
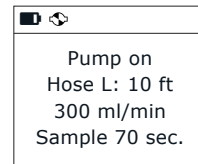
PUMP STATUS SCREEN

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

From this screen you can see the following:

Pump details with pump off

Pump details with pump on

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

LEARN MORE

Visit support.BlacklineSafety.com to download G7's technical user manual with descriptions of how to use and configure your device features and specifications.

CUSTOMER CARE

For technical support, please contact our Customer Care team.

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