

VG640 Quick Instructions

Buttons:

DOWN SILENCE	UP UNITS	SET	ON OFF
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Turning the unit On and Off

To turn the unit On, press and release the ON/OFF Button.

To turn the unit Off, press and hold the ON/OFF button, until the unit turns off. Pressing and releasing the ON/OFF button just turns on the backlight.

Changing the display units

To change the display units press the UP/UNITS button while in normal operation.

Setting the Alarms

Press the Set button. The unit displays “Set Low Alarm” and shows the current value of the low alarm. Use the UP and DOWN buttons to set the alarm from 0 to 19000 Microns. To turn the low alarms Off, press the DOWN button while the set low alarm is at 0 Microns, or press the UP button while the set low alarm is at 19000 Microns.

When you are done setting the low alarm, press the SET button. The unit will now show “Set High Alarm” and the current value of the high alarm. Use the UP and DOWN buttons to set the alarm from 0 to 19000 Microns. To turn the high alarms Off, press the DOWN button while the set high alarm is at 0 Microns, or press the UP button while the set high alarm is at 19000 Microns.

When you are done setting the high alarm, press the SET button. The unit will return to normal operation.

To see the current value of the low and high alarms, press the SET button. The unit will show the current value of the low alarm. Press the SET button again to display the current value of the high alarm. Press the SET button again to return the unit to normal operation.

NOTE: *When high alarm is set to anything but OFF, the unit will alarm when vacuum is not shown.*

Alarm Condition

During an alarm condition, the buzzer will beep and the display backlight will flash red. The unit will flash “Alarm Low” or “Alarm High” to indicate which alarm is active. The unit will also trigger an alarm on the remote receiver.

To silence the buzzer, press the SILENCE button. The unit will still flash the red backlight and the “Alarm Low” or “Alarm High” message.

Display Resolution

The display resolution depends on the vacuum displayed and is as follows:

Vacuum Range (Microns)	Resolution (Microns)
0 to 140	0.5
140 to 400	1
400 to 800	2
800 to 2000	5
2000 to 6000	20
6000 to 9000	100
9000 to 16000	200
16000 to 19000	1000
Above 19000	---- is displayed

Vacuum Range (Pascal)	Resolution (Pascal)
0 to 18	0.05
18 to 50	0.1
50 to 100	0.2
100 to 260	0.5
260 to 800	2
800 to 1200	10
1200 to 2100	20
2100 to 2600	100
Above 2600	---- is displayed

Low Power Mode and AutoShutoff

If no alarms are set the unit will automatically turn off to conserve power, if no button is pushed, as follows:

No Vacuum is Showing: 10 Minutes

Vacuum is Showing: 1 Hour

When alarms are set, the unit will turn off after 8 hours of operation.

In all modes after 10 minutes of operation (set to 25 seconds for testing), if no button is pressed, the unit will enter a low power mode. In this mode the unit updates the display every 7 seconds, instead of every 0.5 seconds. This extends the battery life about 3 times. To exit the low power mode at any time, press any button on the unit.

Remote Receiver Operation

The ON/OFF switch of the remote unit has three positions:

Down: OFF

Middle: On, silent. During an alarm condition, the LED will blink RED and the unit will vibrate, but the buzzer will remain silent.

Up: On. During an alarm condition, the LED will blink RED, the unit will vibrate and the buzzer will sound.

The remote receiver has a dual color LED to indicate the status of the device :

When the LED blinks red, there is an alarm condition.

When the LED blinks green, there is no alarm condition and the unit is in communication with the VG640.

When the LED blinks green, then stays off for about 5 seconds, then on again, the unit is on, but is not in communication with the VG640.

To test communication between the VG640 and the receiver, while there is no alarm condition, press and hold the SILENCE button on the VG640. The remote unit will sound an alarm while the SILENCE button is pressed. Release the SILENCE button to remove the alarm condition.

Reprogramming the Transmit Code for the VG640 and the Receiver

Every VG640 transmitter and remote receiver come preconfigured with a standard alarm transmit code. This means that if multiple VG640 units are installed at a location, if any one of them generates an alarm, every receiver at the same location will sound an alarm. When more than one VG640 is installed at a location, it may be desirable different transmitters to transmit a unique alarm code, triggering different receivers.

To change the alarm transmit code on the transmitter follow the steps below:

1. Make sure an alarm condition is not present.

2. Turn Off all the receivers.
3. Press and hold both the UP and DOWN buttons for about 1 second, until the unit displays **COdE**.
4. Let go of the buttons. The unit displays **dOnE**, indicating that a new, random, alarm code has been programmed into the unit.

To restore the unit to the factory default code, follow the steps below.

1. Make sure an alarm condition is not present.
2. Turn Off all the receivers.
3. Press and hold both the UP and DOWN buttons for about 1 seconds, until the unit displays **COdE**.
4. Continue holding the UP and DOWN buttons for 5 seconds more, until the unit displays **FAC**, indicating that factory default code has been restored.
5. Let go of the buttons.

Once the VG640 transmitter has been programmed with a new code, one or more receivers have to be programmed with this code to receive the alarm message. To synchronize the receiver code to the VG640 transmitter code follow the steps below.

1. Make sure an alarm condition is not present. If possible, turn off any other VG640 transmitters operating at the location.
2. On the receiver, press and hold the button until the LED flashes green then red.
3. Let go of the Silence button.
4. On the transmitter press the SILENCE button for about 1 second and then release it. The LED on the receiver should now flash green.

The receiver is now matched to the transmitter. To test communication, press and hold the SILENCE button on the VG640 transmitter. The receiver should sound an alarm. Release the SILENCE button on the VG640 transmitter. The receiver alarm should go off. If the test has failed, repeat the synchronization procedure, from step 1.