

# Filling Level Indicator

## Instruction Sheet

### INTRODUCTION

This device is a portable filling level indicator for all ( propane/butane - LPG ) steel or aluminium gas cylinders with a diameter of 200 to 350mm. It can be used to check whether there is liquid in the cylinder at the test point and determine the filling level.

### STRUCTURE

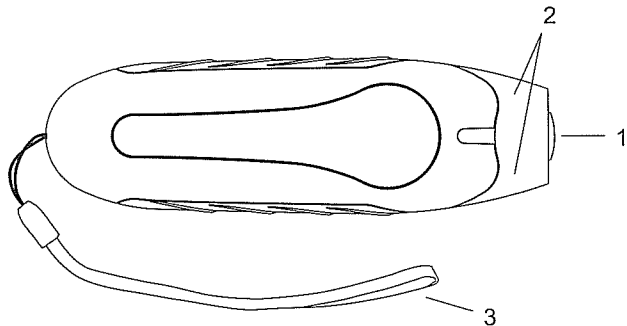


Figure 1

1. Test Head
2. Status Indicator LEDs ( two bi-color red/green LEDs )
3. Carrying Strap

### NOTE

1. Usually, a gas cylinder is filled with max. 80% of its volume. The resulting filling level of a full cylinder changes depending on the gas mixture ( ratio of propane/butane ) and the temperature.
2. The device is not suitable for plastic gas cylinders, gas tanks, or butane

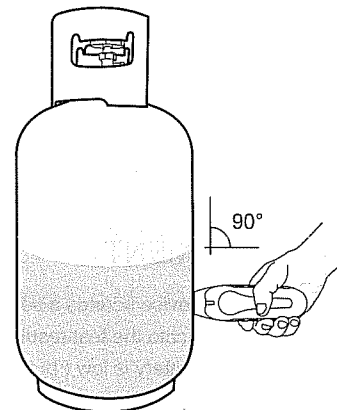
gas cylinders for camping use.

3. To ensure reliable measurements, clean the test head with a damp cloth each time before use. Do not use detergent.
4. A soiled test head can lead to inaccurate measurements. Gas cylinders may probably carry dust particles on their outside surfaces, they will soil the test head. Make sure the areas of the cylinder outside surface where tests are to be performed are clean.
5. Usually, soiled or rusty gas cylinders are difficult to test. The test process can also be impeded in one of the following conditions:
  - An area of the invisible inner surface of the gas cylinder is rusty.
  - The coating of paint on the outside surface of the gas cylinder is too thick.
  - Icy condensation is formed on the outside surface of the gas cylinder.
  - There are dents or severe scratches on the outside surface of the gas cylinder.
6. To ensure that the test results are correct, take several individual measurements at various heights on the gas cylinder ( from bottom to top ).

### OPERATING INSTRUCTION

#### How to Determine the Filling Level

Figure 2



It is necessary to perform several tests to determine the filling level, and it is recommended that you start from a lower position of the gas cylinder.

Refer to Figure 2, hold the device, make sure the device is approximately horizontal in order that it is approximately perpendicular to the cylinder surface where you want to perform test. Then press the test head onto the cylinder surface. The device sounds a beep indicating that the contact between the test head and the gas cylinder is good.

During the test process, the two status indicator LEDs flash simultaneously. When the device sounds a second beep, the test finishes. The two status indicator LEDs stop flashing and turn off, then, immediately the two status indicator LEDs light up to indicate the test result, as described as follows:

- If the two status indicator LEDs light green, it means that liquid is detected at the test point.
- If the two status indicator LEDs light red, it means that no liquid is detected at the test point.

After you finish a test, continue to perform several individual tests at various heights on the gas cylinder ( from bottom to top ) until the filling level is determined.

**Note:** Do not drag the device along the gas cylinder to avoid abrasion of the test head.

The lighting status indicator LEDs will turn off automatically about 15 seconds later after a test finishes.

## BATTERY REPLACEMENT

During a test process, after the device sounds a second beep, the two status indicator LEDs will light up to indicate the test result. If at this moment the two status indicator LEDs flash, the battery is low ( but tests can still be performed ).

At any time, if the device sounds three successive beeps while the two status indicator LEDs flash, the battery is exhausted and tests can no longer be performed and you must replace the battery immediately.

To replace battery, remove the battery cover. Replace the old battery with a new one of the same type. Reinstall the battery cover.

## GENERAL SPECIFICATION

**Battery:** 9V battery, 6F22 or equivalent, 1 piece

**Size:** 146×46×30mm

**Weight:** About 99g ( including battery )

## DECLARATION

1. This Instruction Sheet is subject to change without notice.
2. Our company will not take the other responsibilities for any loss.
3. The contents of this Instruction Sheet can not be used as the reason to use the tester for any special application.

### DISPOSAL OF THIS ARTICLE

Dear Customer,

If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled.

Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.

