



**MT981**

## **Filling Level Indicator**



## INTRODUCTION

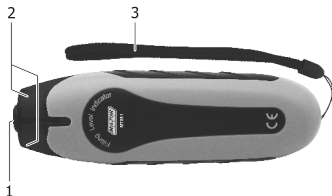
This device is a portable filling level indicator for all (propane/butane - LPG) steel or aluminium gas cylinders with a diameter of 200 to 350mm. It can be used to check whether there is liquid in the cylinder at the test point and determine the filling level.

## Features

- Propane/butane - LPG gas level indicator
- Red & green status LED indicators
- Steel or aluminium cylinders with 200-350mm diameter
- Auto power off
- Carry strap

## Description

1. Test Head
2. Two Status Indicator LEDs (one red, one green)
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).

## How to Determine the Filling Level

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 1, 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.

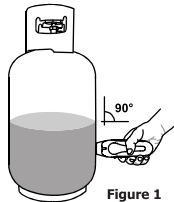


Figure 1

During the test process, the red and green 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 lights up to indicate the test result, as described as follows:

- If the green status indicator LED lights up, it means that liquid is detected at the test point.
- if the red status indicator LED lights up, 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 LED 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 red or green status indicator LED will light up to indicate the test result. If at this moment this status indicator LED flashes, 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 flashes, 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 9V battery with a new one.
- Replace the battery cover.

## Specifications

FUNCTION	RANGE
Cylinder Type	Steel or Aluminium
Cylinder Diameter	200mm to 350mm
Green LED	Liquid detected at test point
Red LED	No liquid detected at test point
Batteries	9V battery
Low battery indication	The two Status indicator LEDs flashes
Battery flat indication	3 Successive beeps & the two Status indicator LEDs flashes
Dimensions (mm)	146mm(H) x 46mm(W) x 30mm(D)
Weight	±99g (including battery)

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