

**Hand Held Leak Tester**  
Model # ZUTR10002



# OPERATION MANUAL

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ZUT-Lab-003-10002  
REV. C

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## Introduction

### Intended Use

The Hand Held Leak Tester is used as an early detection tool in dry and wet leak testing to detect small holes in the exterior of an endoscope. Early detection of leaks can prevent issues with cross contamination and costly repairs due to fluid invasion. Do not use this product for any other purpose.

### Labels, Symbols & Signal Words

The meanings of the labels, symbols and signal words that appear on the packaging, manual and/or instrument are as follows:

The following signal words are used throughout this manual:



#### **CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices or potential equipment damage.

#### **NOTE**

Indicates additional helpful information.

## Important Safety Information



**CAUTION**

Do not immerse the pressure gauge portion of the unit in water.



**CAUTION**

Read this entire manual before operating unit.



**CAUTION**

Always leak test an endoscope in accordance with manufacturer's instructions.



**CAUTION**

Never connect, inflate, deflate, or disconnect the leak tester connector under water.



**CAUTION**

Always wear personal protective equipment when handling a dirty endoscope.



**CAUTION**

Ensure that the leak test connector is fastened securely to the endoscope.

## Cleaning Procedure

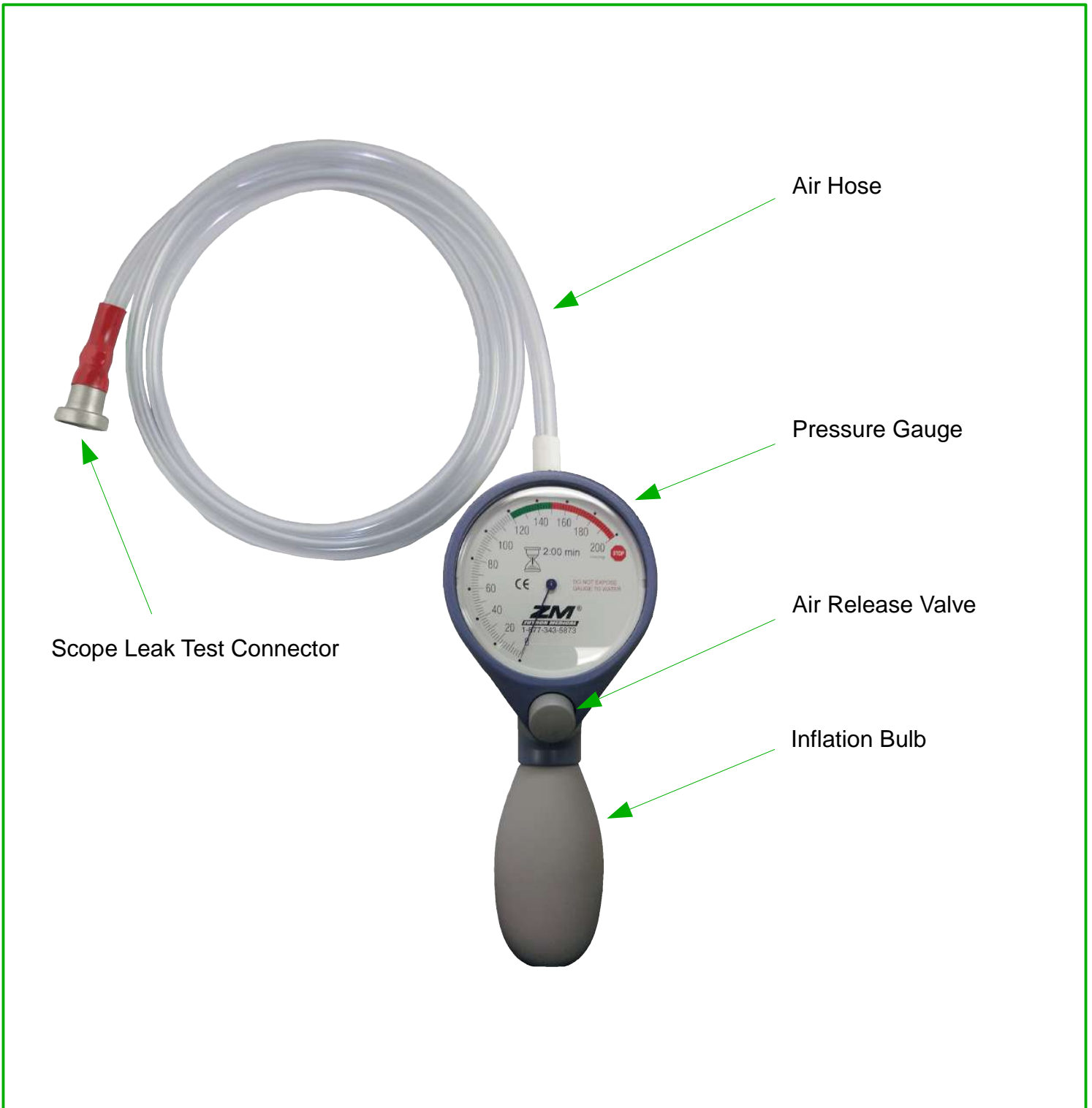
1. Lightly moisten a lint-free cloth with a working solution of a low foaming, neutral pH, medical grade detergent that has been prepared in accordance with the detergent manufacturer's instructions for use.
2. Use the moistened cloth to wipe the exterior surfaces of the Hand Held Leak Tester.
3. Lightly moisten a lint-free cloth with clean water and remove residual detergent from the surfaces of the Hand Held Leak Tester.
4. Thoroughly dry the surfaces of the Hand Held Leak Tester with a dry, lint free cloth.
5. Lightly moisten a lint free cloth with 10% bleach solution, 70% ethyl or isopropyl alcohol, or facility approved high level disinfectant wipe.
6. Use the moistened cloth to wipe the exterior surfaces of the Hand Held Leak Tester.
7. Allow the exterior surfaces of the Hand Held Leak Tester to air dry.

# Hand Held Leak Tester

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## Getting to know the Hand Held Leak Tester



## Instructions For Use – Dry Leak Testing

1. Attach the Leak Test Adapter to the endoscope.

**NOTE** The Hand Held Leak Tester is not waterproof. Please be cautious when using this unit around water.



2. Pump the inflation bulb of the Hand Held Leak Tester gauge until the needle holds steady in the green zone.



3. With the endoscope pressurized, manipulate the control knobs in all directions.

- A) If the needle holds steady for a period of 2 minutes; the instrument is airtight.
- B) If the needle falls slowly the instrument can be submerged in the water to locate the leak, but pressure must be maintained in the green zone.
- C) If the needle falls rapidly or pressure cannot be maintained, follow endoscope manufacturers instructions for use (IFU) for cleaning endoscopes with a leak.



4. In the case of A or B, proceed with the wet leak test.

See next page for these instructions.

## Instructions For Use – Wet Leak Testing

1. Attach the Leak Test Adapter to the endoscope. Pump the inflation bulb of the Hand Held Leak Tester gauge until the needle holds steady in the green zone.



2. Submerge entire endoscope in water and look for air bubbles that indicate a leak coming from the endoscope. Massage all buttons and turn control knobs to move bending section in all directions. Follow endoscope's IFU for more detail.

3. If a continuous stream of bubbles is observed, a leak is present. Immediately remove the scope from the water. Follow endoscope manufacturers instructions for use (IFU) for cleaning endoscopes with a leak.



4. After testing and the endoscope has been removed from the water, the instruments pressure can be reduced by pressing down on the Air Release Valve located on the front of the gauge.



5. Always wait until gauge returns to 0 mmHg and all air from inside the endoscope is removed before disconnected the Leak Test Adapter.

**NOTE** Do not remove Leak Test Adapter from the endoscope while it is in the water.



6. If no leak was detected, you may proceed with manual cleaning.

**NOTE** Only the Leak Test Adapter and a small portion of its tubing should be submerged.

**NOTE** If endoscope has slow leak, be sure to maintain pressure in the green zone

**NOTE** The Hand Held Leak Tester is not waterproof. Please be cautious when using this unit around water. Warranty will be voided with water damage.