



Water level and
temperature meter
WMS-GT

Instruction
manual



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1.Important Notice

All rights to this manual are exclusively owned by PASI srl. All rights reserved.

PASI software and programs are provided 'as-is.'

PASI products are not designed to be used in any way or applications other than those mentioned in this manual.

This guide refers to the 'WMS-GT.'

Torino, ITALIA 2026

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2. Warranty Information and Safety Instructions

Please read the instructions carefully before using the product:

- This instrument has been designed and built to enable water level and temperature measurements inside wells and/or piezometers. A careful reading of this manual is recommended before use
- The warranty will be void if the product is used contrary to the instructions in this manual.
- The warranty will also be void if the instrument has been tampered with.
- The device must be used exclusively according to the instructions described in this manual. Proper and safe operation of the device can only be guaranteed if transport, storage, handling, and operation are appropriate.
- To avoid damage, only use original accessories or those approved by PASI srl.
- When selecting a suitable location for the instrument, ensure that water does not enter the device under any conditions. Only the probe and the cable are guaranteed in case of immersion. Avoid prolonged exposure to direct sunlight. Installing the device on a surface subject to heavy vibration is not recommended.

3. Introduction

The WMS-GT from PASI srl is a high-precision temperature and level meter.

The water level is readable on the centimeter cable. The instrument is equipped with:

- A sound signal and LED indicator that indicate the water level – placed on the panel.
- An 8-character display to indicate the measured temperature, battery level, and error information.

The system consists of:

- A reel with a selected length of cable equipped with a probe for temperature and level detection.
- Batteries included.

4. Technical Specifications

Cable

Round cable with four copper conductors, Kevlar core, and a protective scratch-resistant PUR transparent sheath.

Graduated in centimeters along its entire length in black with meter-decimeter indications.

Probe



FIGURE 1 - PROBE

Probe sensors	Temperature and water level sensor.
Probe Diameter	16mm
Probe Length	190 mm or 238 mm
Cable Diameter	5 mm
Materials	Stainless steel body; photopolymer resin front cap with sensors and cable clamp.

Level indicator

Water detection	Continuous tone and LED indication
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Temperature sensor

Resolution	0.01°C
Precision	± 0.1°C from -20°C to 50°C, ± 0.15°C from -20°C to +70°C

Power supply

Battery	9V battery MN1604 (with easy external access for substitution)
Auto Off	30min

NOTE:
 When the battery is low, the LED indicator flashes 10 times at a frequency of 1Hz and then turns off automatically.

User Interface

Push-button	Single button for on / off and settings
Display	8-character display for temperature indication, battery level indication, error display.

Cable Reel

Materials	PVC and metal
Weight	1.8Kg, 2.8Kg, 4.0Kg, 5.3Kg, 6.3Kg
Length	30m, 50m, 100m, 150m, 200m

5. User Interface, Functionality, and Maintenance

Operating Principles

The instrument's probe is equipped with two sensors:

1. A liquid detection sensor based on electrical conductivity;
2. A high-precision temperature sensor.

The water level sensor is activated when an electrical charge passes between the electrode and the body of the probe, caused by the immersion of the probe in a conductive liquid. In this case, the instrument will signal the presence of water by switching on the LED on the main panel and triggering the acoustic indicator.

The acoustic indicator can be deactivated by pressing the button once (Buzzer OFF).

The temperature sensor takes a high-precision temperature reading once per second, which will be displayed on the screen.

Panel

The panel of the instrument displays information about the device and its functions.



FIGURE 2 - PANEL

Functions

- Temperature detection;
- Water immersion detection;
- 30-minute auto-off if the power button is not pressed;
- Low battery indicator (LED blinks 10 times at 1Hz before automatically switching off).
- Temperature display in three units of measurement: °C, K, and F.
- Battery charge percentage display.

Interface

The interface consists of a single button with which you can perform all functions. The instrument detects the number of presses or the pressing time to perform specific functions:

- Power ON;
- Power OFF;
- Mute the sound indicator;
- Reset the auto-off counter;
- Change the unit of measurement;
- Display battery percentage.

Power ON

To turn on the instrument, hold/press down the ON/OFF button until you hear a beeping sound that indicate that the instrument is active/switched on.

Power OFF

To turn off the instrument, press and hold the button down; when an intermittent sound is heard, you can release the button, and the instrument will turn off.

Mute the sound indicator

If the instrument is immersed in water and you prefer to deactivate the acoustic indicator while keeping only the optical indicator (LED) switched on, simply press the button once while using the instrument. This function resets when the instrument is removed from the liquid.

Auto-Off

Each time the ON/OFF button is pressed, the auto-off counter resets. The device switches off only if it detects 30 minutes of inactivity.

Unit change

The instrument supports three units of measurement for displaying the temperature:

- °C (Celsius) Default
- K (Kelvin)
- °F (Fahrenheit)

You can switch between these units by pressing the ON/OFF button three times consecutively. When first switched on, the default unit of measurement is displayed in °C.

Battery Percentage Display

To display the remaining battery percentage, press the ON/OFF button twice consecutively. The battery indicator will be displayed for 5 seconds, after which the temperature reading will return on the display.

Maintenance

To keep your instrument in perfect condition, remember to carefully wash the cable and probe and dry them with a soft cloth after use.