GASNEEDS
Gas Solutions Delivered

PRODUCT GUIDE

UAE · UK · OMAN · INDIA



REMOTE TANK LEVEL MONITORING

ZERO.1

How it works

Know every tank level, without visiting the tank.



The ZERO.1 sensor

Fits over the existing level dial.

- ATEX ZONE 0
- NB-IoT · LTE-M
- UP TO 8-YEAR BATTERY

Made in Italy by
SUPPLIED BY GASNEEDS

HITEKS
TELEMETRY & SMART METERING

OVERVIEW

Stop guessing tank levels

ZERO.1 reads the level gauge already fitted to your tank and reports it to the cloud automatically, so every delivery is planned on real data.

THE CHALLENGE

Without remote monitoring

- ✕ Staff check the dial gauge by hand
- ✕ Deliveries run on fixed rounds
- ✕ Wasted trips to tanks that are still full
- ✕ Customers run out before anyone knows

THE SOLUTION

With ZERO.1

- ✓ Level read and reported automatically
- ✓ Deliveries planned on real tank levels
- ✓ Low-level alarms trigger refills in time
- ✓ Consumption history for forecasting

<2%	8 yrs	Zone 0	0
reading accuracy	estimated battery life	ATEX / IECEx certified	holes drilled in the tank

WHO USES IT

- LPG and fuel distributors
- Farms and rural sites
- Industrial sites
- Facility managers

WHAT YOU GET

01 Smarter deliveries
Visit tanks when they need it, not on a fixed round.

02 Fewer run-outs
Low-level alarms trigger refills in time.

03 Lower costs
Fewer wasted trips, less fuel and labour.

04 Real data
Monthly consumption history for forecasting.

IN THIS GUIDE

03 The device
04 How it works
05 Choose
06 Install
07 Connect
08 Monitor
09 Specs

THE DEVICE

Know your ZERO.1

A compact, sealed sensor that sits over the tank's level dial. Everything it needs, including the radio and battery, is inside.



ON THE OUTSIDE

1 LED display
Shows the live tank level (%) on site, with no need to read the dial.

2 Touch button
Wakes the display and navigates the setup menu.

3 Mounting bracket
Metal bracket or Rochester® dial adapter holds the unit over the dial.

4 ID label
Model, serial number and ATEX certification marking.

ON THE INSIDE

Sealed, layered construction

- **A** **Bracket** fixes the unit to the tank's dial
- **B** **Display cover** with the LED level read-out
- **C** **Electronics board** with sensor and cellular radio
- **D** **Lithium battery pack,** ATEX-rated
- **E** **Base enclosure** with gasket, IP68 sealed



SIZE	WEIGHT	ENCLOSURE	PROTECTION
68 × 105 × 40 mm	150 g	ABS V0, UV-resistant	IP68 · IK08

HOW IT WORKS

From the dial to your screen

ZERO.1 never touches the gas. It reads the gauge from the outside and turns the needle's position into data you can see anywhere.

THE TANK

The float moves the gauge needle

01

Inside the tank, a float follows the liquid level and turns the dial's magnetic needle.

THE SENSOR

ZERO.1 reads the needle

02

A Hall-effect sensor follows the needle's magnetic field, with accuracy better than 2%.

THE NETWORK

It reports over the cellular network

03

NB-IoT, LTE-M or LTE Cat 1bis, with 2G fallback on some models. No Wi-Fi or cables.

THE CLOUD

WebVision shows the level

04

Level in % and litres, history and consumption, in any web browser.

THE ACTION

Alarms trigger a refill in time

05

Low-level and fault alerts reach you before a customer runs out.

NON-INVASIVE

The tank is never opened

ZERO.1 fits over the existing gauge with a bracket and screws. No drilling, no new tank fittings, no gas work.

YOU SET THE PACE

Reports hourly to monthly

Choose how often it reports. It also sends its battery, temperature and signal, so you know it's healthy.

WORKS ON LPG PROPANE FUEL WATER CHEMICALS

STEPS 01 – 02

Choose and install

Pick the right kit for your tank, then fit ZERO.1 over the existing gauge.

01 Choose the right setup

TANK TYPE

LPG, propane, fuel, water or chemical tanks with a float level dial, above or below ground.

DIAL KIT

Rochester® Senior R3D adapter, or Cotrako® kits for horizontal and vertical tanks.

NETWORK

NB-IoT + LTE-M + 2G, NB-IoT only, or LTE Cat 1bis + 2G, depending on region.

ANTENNA

Internal for above-ground tanks. External 3 m antenna for underground or shielded tanks.

BATTERY PACK

Lithium pack, up to 8 years with weekly reporting (estimated).

NOT SURE?

Send us a photo of your tank's gauge. Gasneeds will recommend the right kit and model.

02 Install on the gauge

1. **Fit**
   Place ZERO.1 over the tank's existing level dial using the bracket or dial adapter.
2. **Secure**
   Fix it with the supplied screws. No drilling, and the tank is never opened.
3. **Read**
   The Hall-effect sensor locks on to the dial's magnetic needle.
4. **Check**
   Confirm the display reading matches the dial.



Safety first. Installation must be done by qualified staff, following the official Hiteks manual. ZERO.1 is certified for Zone 0 hazardous areas.

INSTALLATION EXPLAINED

How ZERO.1 fits on your tank

The tank's float level gauge moves with the gas inside. ZERO.1 sits on top of it and reads it from the outside.

1



The tank

ZERO.1 is mounted on top of the tank, over the level gauge.

2



Inside: the float

A float on a rod inside the tank rests on the liquid LPG. (Illustration)

3



The level drops

As gas is used, the liquid falls and the float moves down with it. (Illustration)



Top view: ZERO.1 fitted

ZERO.1 sits over the tank's level dial. The small round dial on the multi-valve is a pressure gauge, not the level gauge.



The float level gauge

The float arm turns a magnet inside the gauge. The dial's needle follows it and shows the % of tank volume.

Typical float gauge, shown as an example.

HOW ZERO.1 READS THE LEVEL

It reads the needle, not the pressure

ZERO.1 does not measure pressure inside the tank. It detects the gauge needle's position magnetically. As the level drops, the needle moves with the float, and ZERO.1 shows the new level on its digital display.



01 **Float drops**
Liquid LPG falls as gas is used.

02 **Needle moves**
The gauge needle follows the float.

03 **ZERO.1 detects it**
Reads the needle magnetically and shows the level digitally.

04 **WebVision alerts**
Low level triggers a refill in time.

STEPS 03 – 04

Connect and set your alarms

Power on, check the signal in WebVision, then set the levels that trigger a refill.

03 Power on and connect

01

Power on
Press the touch button. The display wakes and the device registers on the network.

02

Log in
Open webvision.digimatic.it in any browser.

03

Check signal
The device reports its signal strength (RSSI). Weak? Fit the external antenna.

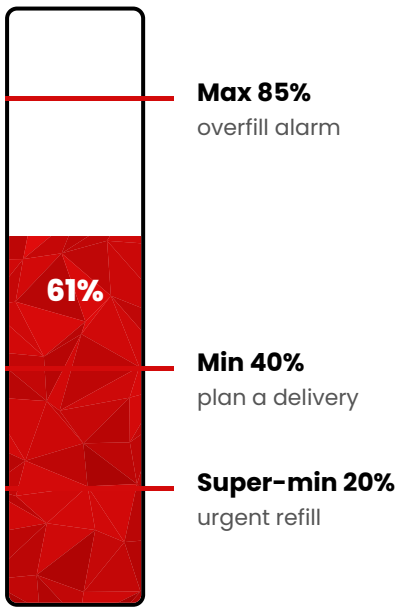
04

Set reporting
Choose the report interval, from hourly to monthly.

Done when the tank appears under **Devices** in WebVision, showing its live level.

04 Set your alarms

EXAMPLE THRESHOLDS



Level alarms

High and low thresholds you set per tank, plus a super-minimum for urgent refills.

Delivery alarms

Refill detected, and refilling above the maximum level.

Fault alarms

Locked probe, zero consumption, and water in underground tanks.

Device health

Battery, temperature and signal strength are reported to WebVision.

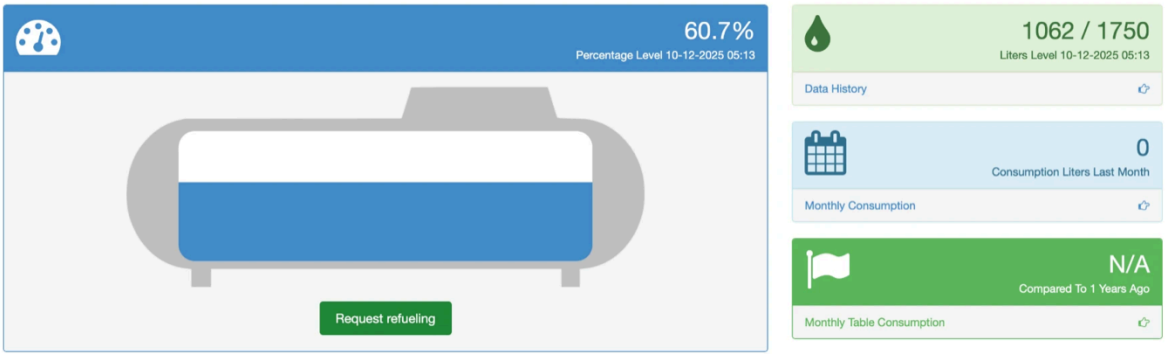
STEP 05

Monitor in WebVision

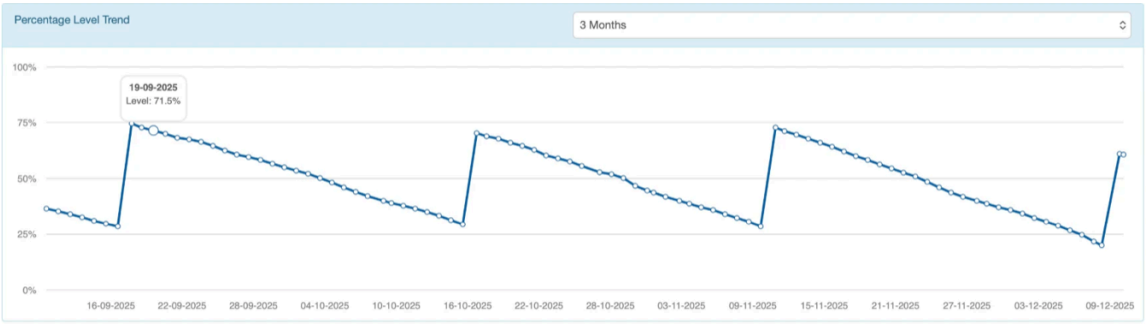
Every tank on one dashboard. Open it from any computer or phone browser, with no software to install.

webvision.digimatic.it

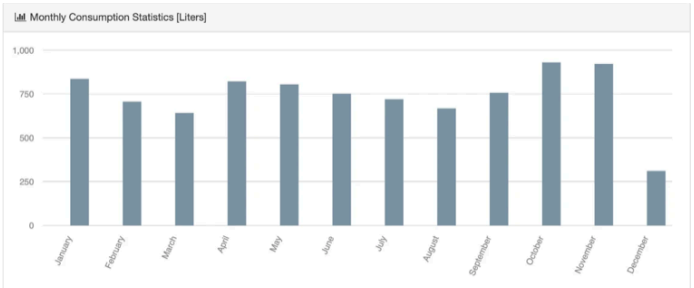
Live level Level in % and litres, with the time of the last reading



History Level trend over 3, 6, 9 or 12 months; each jump up is a refill



Consumption Litres used per month



Year on year
Compare each month with the year before

Refills log
Every delivery with date and litres

Request refuelling
One click from the tank's page

Data export
Download levels in % or litres

Screens shown are examples.

STEP 06

Maintain and specifications

Low upkeep for years: watch the battery in WebVision and update remotely.

Battery life
Estimated up to 8 yrs with weekly reporting; 4–8 yrs daily.

Watch it
Battery voltage shows in WebVision, so replacements are planned ahead.

Replacement
Use only the Hiteks battery pack certified for ATEX areas.

Updates
Firmware and settings update remotely. No site visit.

Tip: longer report intervals mean longer battery life.

TECHNICAL SPECIFICATIONS

Level reading	Hall-effect sensor, <2%	**Temperature**	-25 °C to +70 °C
Network	NB-IoT · LTE-M · Cat 1bis · 2G	**Hazardous area**	II 1G Ex ia IIB T3 Ga
Power	Lithium pack, up to 8 yrs	**Certificate**	TÜV IT 14 ATEX 013 X
Enclosure	ABS V0 · IP68 · IK08	**Approvals**	CE, UKCA, FCC/IC (by model)
Size / weight	68 × 105 × 40 mm · 150 g	**Warranty**	2 years

ATEX — Zone 0 hazardous areas

IECEx — International certification

IP68 — Dust and water sealed

IK08 — Impact rated

DEVICE CODES	TL.014.502 – TL.014.509, by region, network and antenna (odd codes = external antenna)
ACCESSORIES	SC.020/02 Rochester® adapter · SC.020/02.05 / .06 Cotrako® kits
MANUFACTURER	Hiteks Telemetry and Energy, Made in Italy

UAE · UK · OMAN · INDIA

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Install by qualified staff only, following the official Hiteks manual. This guide is an overview; specifications are from the Hiteks 2026 catalogue and may change. Check the official datasheet before ordering or installing.