

GO WITH THE FLOW.

T TECALEMIT

TECALEMIT FLOW



**Connected. Scalable.
Ready for Industry 4.0?**

www.tecalemit.de/en

Mobile Tanks on **Construction Sites**

A steady fluid supply is essential on construction sites. Mobile tanks enable on-site refueling, but without precise consumption monitoring, misfueling, theft, and billing errors can occur.

TECALEMIT Flow records, documents, and secures every refueling process. The system ensures accurate consumption analysis, minimizes losses, and simplifies billing. GPS tracking and advanced security mechanisms prevent unauthorized use and provide real-time tank location.

Benefits: Accurate tracking, easy installation, documentation for billing, GPS, various security mechanisms.

Fuel Monitoring for **Fleet Operations**

For fleet operations, accurate monitoring of diesel, AdBlue, and fresh oil is the best way to reduce costs and optimize maintenance. Precise tracking helps minimize wear, misuse, and billing errors.

With an intelligent monitoring system, all refueling and refill processes are digitally documented and seamlessly integrated into existing systems via API. This ensures full transparency and optimal consumption planning at all times.

Benefits: Consumption optimization, reduced misuse, transparent documentation.

Scalable Fluid Management in **Agriculture**

As agricultural operations grow, so does the fuel demand for machines and vehicles. New tanks and dispensing points become necessary to ensure a reliable supply. At the same time, precise tracking and control of consumption are essential for optimizing operating costs and preventing losses.

A scalable fluid management system allows for easy expansion with additional pumps and dispensing points. The smart TECALEMIT Flow meter precisely records consumption and can be integrated into existing systems for flexible expansion.

Benefits: Flexible expansion, accurate consumption tracking, cost optimization, and seamless system integration.



Use TECALEMIT Flow in the following industries

- Logistics and transportation
- Workshops and dealerships
- Construction
- Industry
- Fleet management
- Agriculture and **more**

CONNECTED & SCALABLE

myTecalemit

LTE

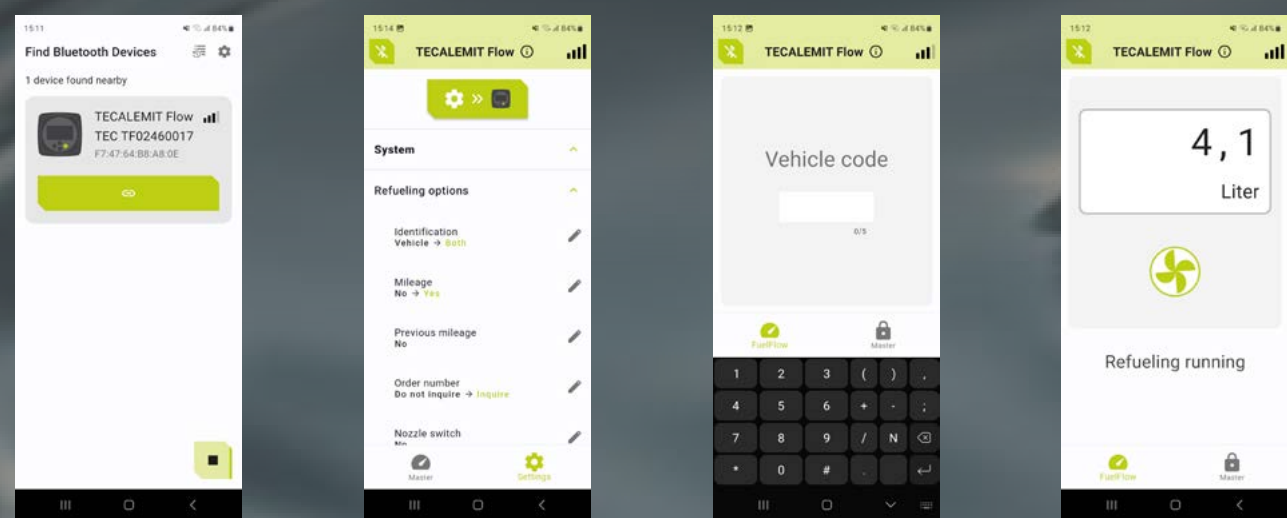
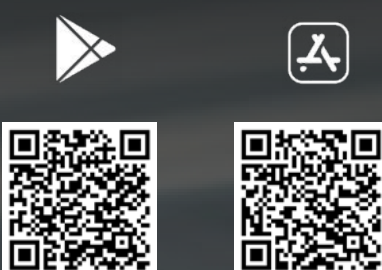
The intelligent flow meter from TECALEMIT gives you **full control over your fluid management**. The device communicates directly with the **myTecalemit Cloud** to transmit measurement data but also allows for offline refueling. Data is stored locally and synchronized with the cloud once the connection is restored, **ensuring automatic archiving and processing** - for complete control, **anytime and anywhere**.



TECALEMIT COMPANION

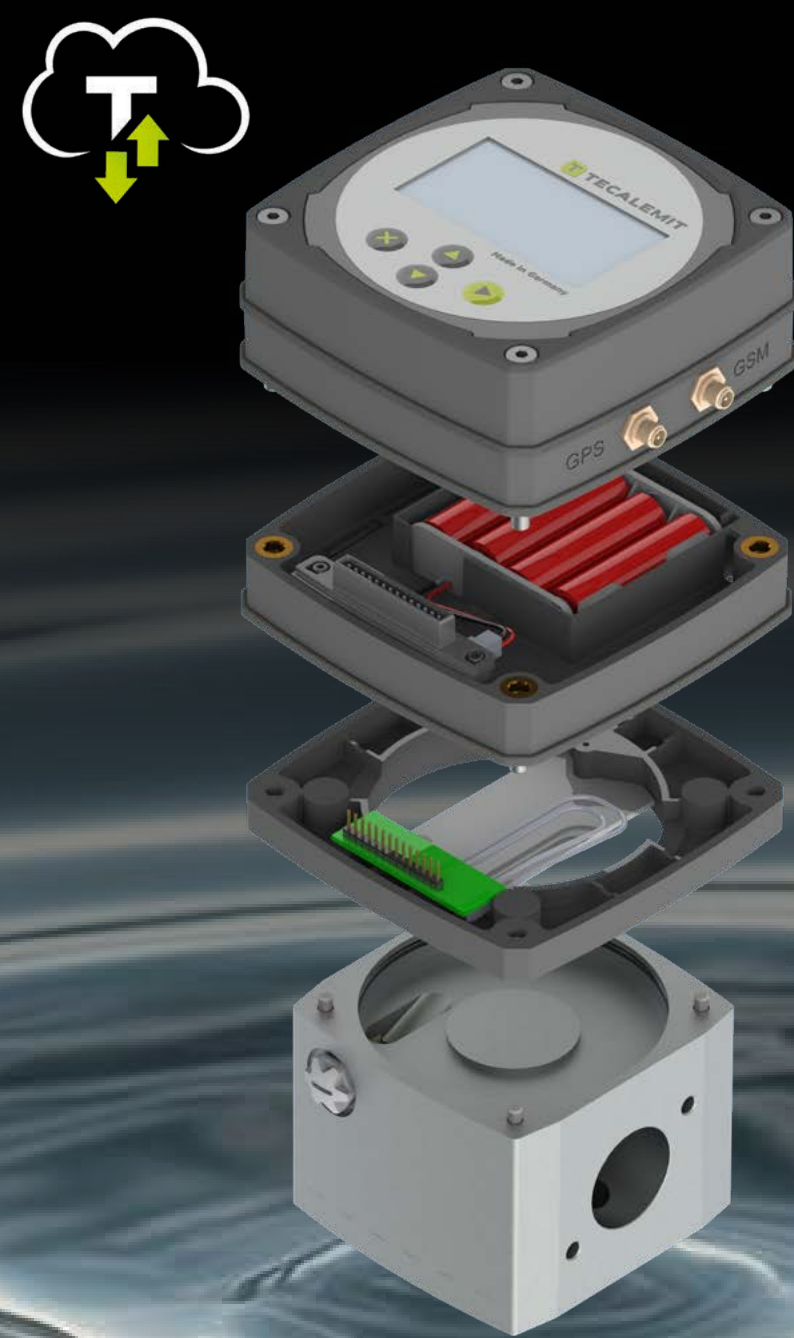
With the TECALEMIT Companion App, you have full control over your TECALEMIT Flow device directly from your **smartphone or tablet**. Configure your device, start fueling processes, and monitor the flow in real-time.

Our app is available for **iOS** and **Android** devices.



READY FOR ANY REQUIREMENT

- Our flow meter is specifically designed to provide **maximum flexibility**—without compromising on **precision and efficiency**. The modular components can be chosen to your individual operational requirements, ensuring a customized solution for your specific challenges at all times.



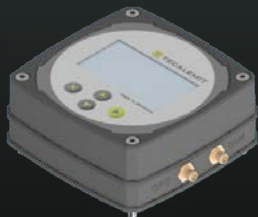
***Oval gear meter with battery compartment & connections for external antennas**

MODULARITY

Control Unit



The control unit of the TECALEMIT Flow is the central operating interface of the flow meter. It features a **3" LCD display** and **four navigation buttons**. The illuminated display shows both the menu and real-time flow values, ensuring that all essential information remains visible at all times.



By default, the control unit is equipped with **LTE** and **GPS** antennas. For installations requiring external antennas, a variant is available that allows the connection of external GPS and GSM antennas.

External Antenna

The antennas can be **flexibly positioned** at an optimal location to avoid potential signal interference caused by the installation site. Please note that the version for external antennas does not include internal antennas.



Security & Authorization

Protecting sensitive data and functions has never been easier. TECALEMIT Flow offers **state-of-the-art security and communication solutions**:

- Multi-level communication
- Integrated RFID reader
- App-based authorization
- Energy-efficient real-time clock
- Secure GPS location transmission
- Concealed Antenna Solution



COMPANION
READY



RFID

CODE

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Power Supply

For mobile applications or standalone use of the flow meter, a battery compartment for **4 x 1.5V AA batteries** is available.

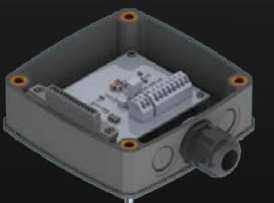
If a configuration with an **external measuring chamber** is required, a **panel module** is available.

To control pumps, solenoid valves, or similar devices via a relay, both a **120-230V AC** and a **12-24V DC Powerbox** are available. When using a Powerbox, multiple external connections can be utilized.

See the Powerbox connections below.



Battery



Powerbox Adapter



Panel module
Impulse Input

TECALEMIT FLOW POWERBOX



Panel module
Wall adapter



- Mains Power Input
- Switching Output
- Level Sensor Input
- Pulse Generator Input
- Nozzle Switch Input
- TECALEMIT Flow Data Cable

TURBINE GEAR MEASURING CHAMBER

Flow rate	Max 120 l/min*	Min 5 l/min*
Operating pressure	max. 10 bar	
Protection class	Battery IP65	Powerbox IP54
Connection thread	G 1"	
Viscosity	max. 40 mPa s min. 0,8 mPa s	
Measurement accuracy	Calibrated +/- 1% Uncalibrated +/- 2 %	
Power supply	4x1,5V AA [1] 120 - 230 V 50/60 Hz [2] 12 - 24 V DC [3]	
Dimensions		
Weight	0,75 Kg [1] 1,1 Kg [2], [3]	

*System and viscosity dependent

- [1] Battery-powered device
- [2] Powerbox AC
- [3] Powerbox DC



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Turbine Gear TM

D U R W Flow Rate 5-120 l/min*

When to Choose a Turbine Flow Meter?
Choose the turbine flow meter for

- More stable and higher flow rates
- Larger dispensing volumes
- Low-viscosity media

Turbine flow meters with 1" threaded connections are available in the following material variants:

- POM
- Other material variants available upon request.



TM POM

Measuring Chamber TM



OVAL GEAR MEASURING CHAMBER

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Oval Gear OG

O **R** Flow Rate 1-150 l/min



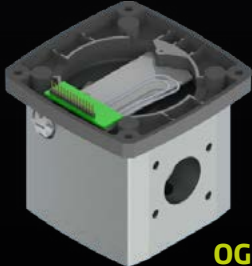
Flow rate	1-150 l/min*	
Operating pressure	max. 15 bar	
Protection class	Battery IP65	Powerbox IP54
Connection threads	Please see accessories	
Viscosity	max. 2000 mPa s min. 20 mPa s	
Measurement accuracy	Calibrated +/- 0,5 % Uncalibrated +/- 1 %	
Power supply	4x1,5V AA [1] 120 - 230 V 50/60 Hz [2] 12 - 24 V DC [3]	
Dimensions		
Weight	0,75 Kg [1] 1,1 Kg [2], [3]	
*System and viscosity dependent		
[1] Battery-Powered Device [2] Powerbox AC [3] Powerbox DC		



OG15



OG100



OG150

When to Choose an Oval Gear Meter?

Choose an oval gear meter for

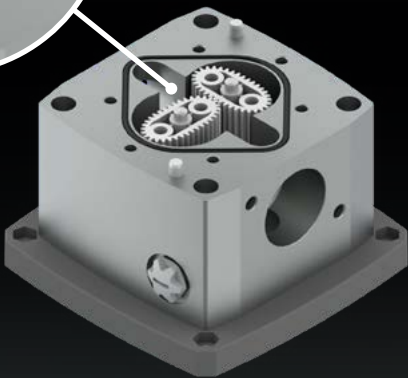
- Varying and low flow rates
- Smaller dispensing volumes
- High-viscosity media

The oval gear meter is available in the following variants:

- OG15 - 1/2" Connection
Flow rate up to 15 l/min*
- OG100 - Flange Connections
Flow rate up to 100 l/min*
- OG150 - Flange Connections
Flow rate up to 150 l/min*

*System and viscosity dependent

Measuring Chamber OG

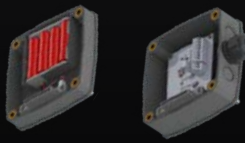


FIND YOUR FLOW METER



Control Unit

- Internal antenna
- External antenna



Power Supply

- Battery
- Battery & Powerbox

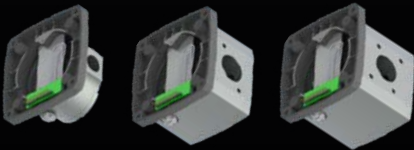


Turbine Gear **TM**

D U R W

- TM POM

More materials on request.



Oval Gear **OG**

O R

- OG15
- OG100
- OG150



External Measuring

- Panel module

TM

Battery

Art. Nr.	Control Unit	
	Internal Antenna	External Antenna
254410000	●	
254410100		●

Powerbox 120/230V AC

Art. Nr.	Control Unit	
	Internal Antenna	External Antenna
254411000	●	
254411100		●

Powerbox 12/24V DC

Art. Nr.	Control Unit	
	Internal Antenna	External Antenna
254413000	●	
254413100		●

PRODUCT MATRIX

OG

Battery

Art. Nr.	Control Unit		Measuring Chamber		
	Internal antenna	External Antenna	OG 15	OG 100	OG 150
254510000	●		●		
254510100		●	●		
254520000	●			●	
254520100		●		●	
254530000	●				●
254530100		●			●

Powerbox 120/230V AC

Art. Nr.	Control Unit		Measuring Chamber		
	Internal antenna	External Antenna	OG 15	OG 100	OG 150
254511000	●		●		
254511100		●	●		
254521000	●			●	
254521100		●		●	
254531000	●				●
254531100		●			●

Powerbox 12/24V DC

Art. Nr.	Control Unit		Measuring Chamber		
	Internal Antenna	External Antenna	OG 15	OG 100	OG 150
254523000	●			●	
254523100		●		●	

External Measuring

Battery

Art. Nr.	Control Unit		Panel Module
	Internal Antenna	External Antenna	
254300000	●		●
254300100		●	●

Powerbox 120/230V AC

Art. Nr.	Control Unit		Panel Module
	Internal Antenna	External Antenna	
254301000	●		●
254301100		●	●

Powerbox 12/24V DC Upon Request

Do you need special materials or adapters for your project?
Contact us today to discuss your specific requirements. Our team is **ready to help** you find the best possible solution for your needs.

Phone +49 461 8696-126
E-Mail sales@tecalemi.de



ONE FOR ALL ALL FOR ONE

We are here to help



Michel Post

Sales Director
michel.post@tecalemmit.de

We Are Here for You!
You've read through everything, but still have questions or haven't found the perfect solution?
No problem – our sales hotline is available Monday to Friday to assist you with all matters related to purchasing TECALEMIT products. Or simply send us a message.

Sie haben bereits ein TECALEMIT Produkt und benötigen ein Ersatzteil oder haben Fragen zur Bedienung?
Then our service hotline is the right point of contact for you. Experienced team members are here to assist you–no outsourced call center!

CONTACT



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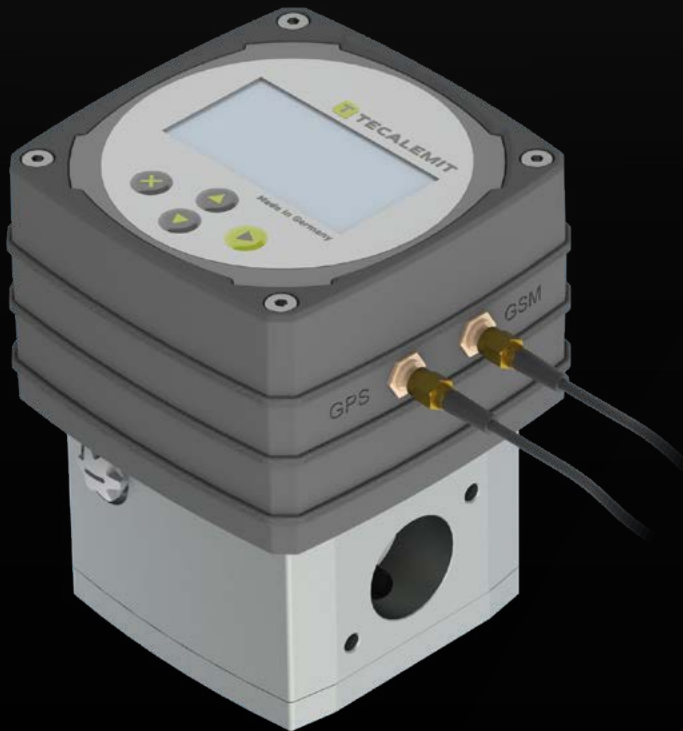
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ANTENNA & ACCESSORIES

TECALEMIT Flow can be expanded with accessories and tailored to your individual needs.



Combination Antenna GPS/LTE
225600005



Description	Item Nr.
Combination Antenna GPS/LTE	225600005
GPS Antenna	225600003
Cellular Disc Antenna LTE	225600004
Wallmount TM120	254800000

Description	Item Nr.
RFID TAG Type 2 (Key Fob)	030498010
RFID Transponder Card Type 2	030498020
USB RFID Reader (for use with PC)	030498200

PICTURES





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Learn more



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