



# Monitoring Solutions

**Proactively operate and maintain  
your vacuum sewer collection system.**





# Wireless Monitoring Solutions

with LoRa Monitoring Technology

# Wireless monitoring of vacuum sewer systems.

Smart technology and digital communication for your wastewater network.

With wireless digital monitoring and control, vacuum wastewater systems reach a new technical level: All data on the plant's operation is available at any time. Any irregularities are detected and precisely localized at incredible speed. Adjustments to new operating conditions can be easily programmed via an app. Discover the future of digital plant management now - with LoRa monitoring technology from Roediger®. Powerful. Individually adaptable. Future-proof.

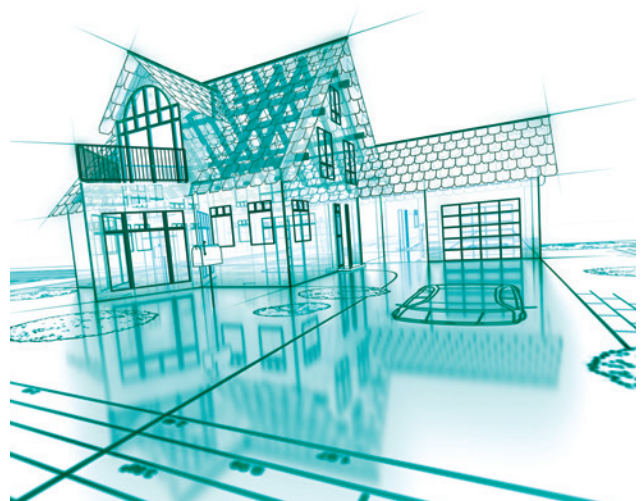
## Everything in view, everything under control - the latest generation of high-tech.

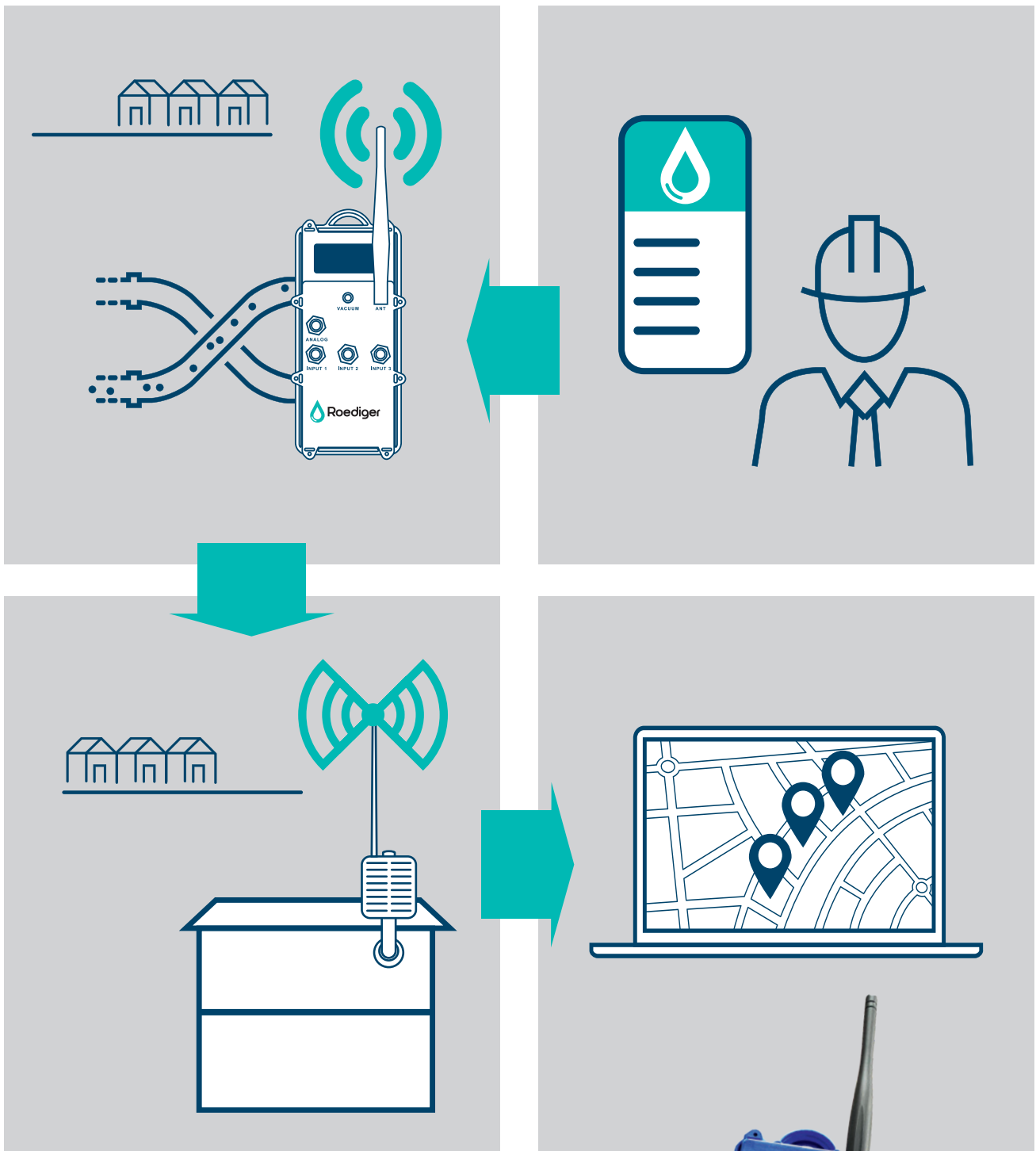
LoRa monitoring technology is the smart solution for equipping existing vacuum wastewater systems with intelligence and high-tech - or for opting for a strong, reliable technology with a future for new systems right from the start. No matter how large your system is, LoRa brings complete transparency to every single function and transmits data that puts you in control of the entire network. Your big advantage: You can noticeably reduce the operating costs of your system - through more efficient information management. But above all, you reduce the deployment costs of service and repair teams enormously through the rapid localization of possible faults.



## Upgrade or new planning - LoRa pays for itself

The intelligence of LoRa starts with the installation: If you want to bring your existing system into the digital age, no earthworks or cable laying are necessary. Advantage number two: LoRa is flexible and scalable - you can gradually upgrade your wastewater system to the new technology and thus adapt the expansion to your budget at any time. When installing new wastewater systems, you can rely on the technology of the future right from the start - with noticeable financial relief in operations.





## Reliable radio technology - LoRa monitoring systems from Roediger®.

Proven and effective technology: With LoRa, your wastewater system communicates with you – simply and wirelessly via radio. Messages about irregularities are immediately displayed on the operators’ smartphones – including chamber-specific localization of faults.





## LoRa monitoring technology from Roediger® - your advantages at a glance

Decades of experience with vacuum technology, comprehensive knowledge of all components: The concentrated competence of our company is in every LoRa system.

Services and benefits	Existing and new systems
Reduction of maintenance and operating costs	✓
Fast and precise localization of faults	✓
Secure data transmission and storage	✓
Holistic overview of your system	✓
Simple and intuitive operation	✓
Long runtimes thanks to intelligent battery management	✓
Complete system monitoring (24/7) even outside working hours	✓
<b>Additional advantages when retrofitting existing systems</b>	
Easy installation without earthworks	✓
Step-by-step installation possible	✓

Whether you're starting fresh or modernizing an existing system, Roediger® delivers cutting-edge technology to take your wastewater infrastructure to the next level. **We look forward to hearing from you!**

**Discover LoRa® monitoring solutions by Roediger®—a high-tech, intelligent way to manage your vacuum sewer system with confidence and precision.**



# Wired Monitoring Solutions

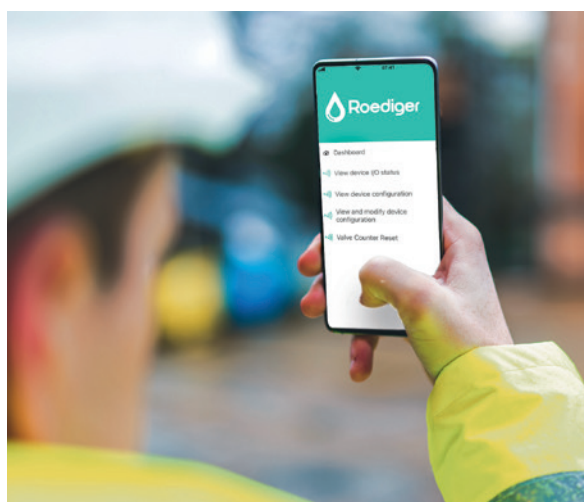
The Roediger® Monitoring System (RMS).

The Roediger® Chamber Management System (RSMS).

## The Roediger® Monitoring System (RMS).

# The new digital standard for wastewater management.

Controlling and programming with cutting-edge technology



**A future-proof infrastructure is the backbone of every community. The Roediger® Monitoring System RMS makes a significant contribution to this – through seamless and reliable monitoring of your vacuum sewer network.**

### Smart technology for every local authority – reliable and sustainable

Roediger® wastewater systems have earned a reputation for absolute reliability and performance over a long period of time. From now on, the Roediger® Monitoring System RMS guarantees this functional reliability at any time and in a very simple way: With smart and innovative technology, RMS monitors your vacuum station around the clock, shows you any errors in real time and helps you to quickly locate trouble spots – saving you time and therefore money in day-to-day operation. In addition, the risk of possible consequential damage is reduced and the operational reliability of your wastewater infrastructure is increased enormously.

### Investment with a future – flexible and scalable

New living space is created – RMS expands with it: 256 possible collection chambers per cable guarantee that your system will still be able to keep up tomorrow and that you will not have to invest in additional infrastructure. Neither complex hardware nor costly programs are required for daily operation: The module can be programmed quickly and easily via an app on your cell phone. And of course, you can easily transfer all data to an existing control system.

**Secure the infrastructure of your community with Roediger® RMS.**

## The Roediger® Chamber Management System (RSMS).

# Unique efficiency for wastewater management.

Monitoring, managing and controlling with cutting-edge technology



### Operation, monitoring and control – all under one roof

Every Roediger® sewer system is already an investment in a sustainable and future-proof infrastructure. With a Roediger® Chamber Management System, however, you can take the operation of your vacuum sewer system to a completely new level: Our RSMS system monitors the functional stability of the plant around the clock and shows you any malfunctions in real time. Above all, via its extensive management functions, it can immediately optimize the system, independently adapt it to new operating conditions and automatically eliminate small errors.

### Respond quickly, save budget – that's how technology pays off

Service staff and your infrastructure budget will be grateful: RSMS noticeably reduces night and weekend calls, speeds up and simplifies the time-consuming and cost-intensive search for leaks. And thanks to the option of the self error correction function via the system, trouble spots can be repaired in a targeted manner at the next regular maintenance interval.

### Organic growth replaces new start-up – investment security by scalability

With up to 256 possible collection chambers per cable, the Roediger® RSMS occupies an exceptional position in the market in terms of its capacity. This gives the system an almost immeasurable growth potential for expansions – without you having to invest in additional infrastructure.

### Digitization in the daily routine – query and programming via app

Neither additional equipment nor special software is required to access the system – everything is controlled via cell phone and two separate apps. One app is used to read out data, operate the highly intelligent technology and program the system, while the second allows you to keep an eye on your sewer network at all times. And of course, all data can also be transferred to an existing control system.

**The Roediger® Chamber Management System (RSMS).**

# Expect the best – all the advantages of vacuum technology



## **The Roediger® Chamber Management System (RSMS)**

perfectly completes the many advantages of vacuum technology. Numerous successful installations are the best proof – such as our project in the new residential area Walldorf Süd/Germany:

In 2008, the decision was made to use the Roediger® vacuum technology for the new development area Walldorf Süd with 40 ha (approx. 1,000 residential units and 3,000 inhabitants). Key criteria for the decision were environmental protection (exfiltration-proof piping network), cost advantages and the free scalability for connecting further construction sections to the network.

During the expansion of the construction area in 2020, the Roediger® Chamber Management System (RSMS) was additionally installed, programmed and commissioned by a local construction company. The RSMS ensures efficient and convenient monitoring of the system. An RSMS upgrade is under planning for the already existing connections. The error-free monitoring, the very short response times and the fast, cost-effective upgrade emphasize the high potential of this technology.

**Targeted, safe, and sustainable. Roediger® RSMS.**

# Functional Differences between the Monitoring System (RMS) and the Chamber Management System (RSMS)

Functions	Chamber Monitoring	Chamber Management System
Valve Monitoring	✓	✓
Sump Monitoring	✓	✓
(Optional) Pressure Monitoring	✓	✓
Valve Activation Counter	✓	✓
Chamber Alarm Counter	✓	✓
4 Digital Inputs	✓	✓
4 Digital Outputs	X	✓
Remote Valve Opening	X	✓
Remote Valve Closing	X	✓
Automated Failure Correction	X	✓
Automated Controller Override	X	✓
Automated Chamber Cleaning in 24h	X	✓
Automated Aeration Function	X	✓
Emergency Chamber Operating (Controller Fail)	X	✓
Check of All Chamber Components	X	✓

## Differences between Dupline and the new Roediger Bussystem

Our monitoring system has been completely redesigned.

### What has been updated:

- Signal capacity upgrade from 128 to 256
- Additional analog pressure measurement now possible
- No programming tool required, it works now with a mobile phone programming App
- Double Range by voltage upgrade from 8.2VDC to 24VDC
- The Bus-Protocol has a failure correction included and is more resistant against external EMF disturbances



Dupline



Roediger BUS



Profibus



Profinet

# Vacuum Technology Solutions

Making a difference **today**, for a better **tomorrow**.

## Sustainable & Efficient

Our vacuum technology reduces water consumption, minimizes infrastructure costs, and supports environmentally responsible solutions across all industries.

## Flexible & Scalable

Designed to adapt to diverse environments, our systems integrate seamlessly into new and existing projects, whether for municipal sewer networks, large-scale sanitation facilities, or railway infrastructure.

## Hygienic & Reliable

Our sealed vacuum systems prevent leaks, odors, and contamination while offering easy maintenance and long-term reliability, ensuring uninterrupted performance in any application.

## Innovative & Proven

With decades of expertise and patented industry-firsts, we continuously advance vacuum technology to deliver smarter, more reliable, and cost-effective solutions worldwide.



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