



**SOMITRA**  
BUSINESS GROUP

Innovation &  
Digital Transformation  
In Automated  
**Water Meter  
Reading**





# Who we are

Somitra B.V. was founded in 2012 in the Netherlands. Our main business areas are in Oil & Gas, Renewable Energy, and Water and Wastewater Treatment and Management. Our goal is to introduce innovative products and solutions to the current challenges of these industries.



# Water & Wastewater Industry

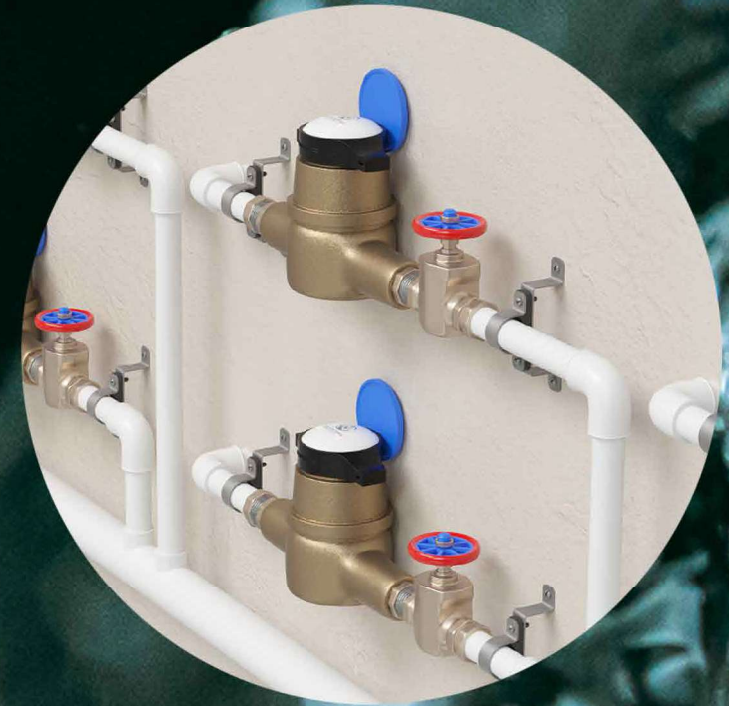
Somitra B.V. from its early years, enhanced its network within Water and Wastewater Treatment and Management Industry and partnered with a number of internationally successful Engineering, Manufacturing and EPC Contractors in this industry.



Our main focus is customer satisfaction. Somitra B.V. offers the best innovative approach with an exceptional outcome, which relies on the expertise of our R&D engineers.

# *Innovation in water meters*

The most significant challenge for the water distribution companies is reading the meter information which is extremely expensive. Economically speaking, it is not possible to change the mechanical meters in a short time.



**Our experts and R&D engineers in Water and Wastewater Treatment and Management, developed an innovative product to solve this challenge. The result is a unique product for reading meter information which is a mechanical to digital converter sensor.**

# Why use this device?

This innovative and unique device, through its sensor, reads the water meter automatically. Our device can be easily set up and installed on any meter body with no physical alteration to the current meters form and shape. The installation is very quick and can be done in a matter of minutes.



# *Residential water meter*

There are some serious concerns regarding residential water usage and measurement. Due to high prices of water meters, they are usually used in a shared basis. This leads to the lack of information on 2 major things. The volume of water used by each specific house and any piping problems or leaks. Which in turn leads to water wastage.

The Answer to these concerns is actually very simple. We Need a cost effective water meter in installation and operation phase. Here enters our company Smart water meter reading sensor.

Using a single sensor, without any intrusions in the actual pipe, our Smart water meter reading sensor is the answer to all your concerns. It attaches to the pipe with straps without needing any cuts, which makes it very cheap and very fast to set-up. It also finds any leakage in specific conditions almost instantly. All these are possible using machine-learning technics.

Using our application Smart water meter reading sensor, users can find some essential information including real-time consumptions on the needed basis like volume or cost, consumption on each outlets and comparison between the user and his/her peers.

There are also some suggestion to reduce consumption which leads to savings almost as high as 30%.

# General Advantages



Convenient and fast installation on various types of meters (without the need for network specialist)

**1**

**2**

Light and delicate, diameter 8 cm, height 3 cm

Without the need for the user to read

**3**

**4**

Without the need for applying any changes in the current meters

The meter reading method in two completely separate ways if necessary and absolutely mechanized

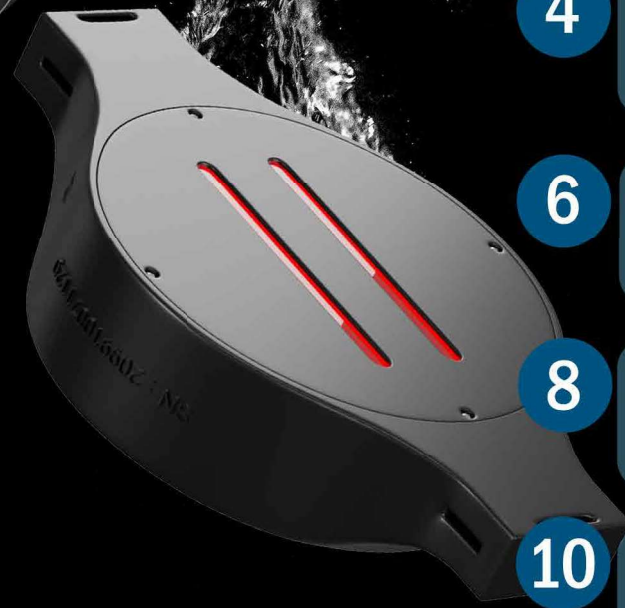
**5**

**6**

Integrating all the current meters in the water system of the Netherlands even grid and digital meters



# Technology Advantages



1

Modbus Output

2

Operating voltage of 3.7 volt with the ability to charge the battery through USB

3

Alarm for defining domestic use from the business one

4

Internal memory to keep the information up to 10 years

5

Without the need for constant connection with the center and the intermediaries

6

The ability to read the water temperature

7

Without the need for using the radio bandwidth

8

The ability to be connected to the current software of the water company

9

With IP 65 for extending the device health life

10

The ability to read the water pressure

11

Without the need for the cable and the landline

# *Economic Advantages*

“

Sending data bilaterally to the water company will be free

“

Cost-effective setup with minimal changes

”

Requires minimal infrastructure equipment

Data output through CSV file and numeric codes (if necessary, the data can be adopted with other protocols without the need for the changes)

1

Convenient and easy connection protocol between the devices and the server

2

Without applying any changes in the current central software of the water company

3

Extremely low volume of data transfer even in the form of encrypted

4

Sending the reading information without any time limit

5

IP static on the device since it was produced in the factory

6

# Software Advantages



Environmental friendly  
(electromagnetic waves  
reduction)

Without the need for  
various networks of  
Lan, Van, Wi-Fi, GPRS

Long battery life due  
to the low consumption  
of the device

# *Environmental Advantages*

Warning  
to the water company  
at the end of the day for the  
unusual water consumption

Without the need for using  
the radio bandwidth

1



Gold medal and certificate of honor  
in new product invention  
iENA 2019, Nuremburg, Germany

2



Certificate of “Inv”  
membership in IFIA

7



Special Award, certificate of  
achievement, TISIAS, 2020,  
Toronto, Canada

3



Silver prize in Seoul  
International Invention Fair  
2019, Seoul, Korea

8



Special prize of Korea  
international trade association  
2019, Korea

4



Gold certificate, in recognition of excellent invention,  
OFEED, of international federation of inventors  
associations in innovation week of IWA 2020

5



Gold medal of IIFME, 12th  
international invention fair in the  
Middle East, 2020, Kuwait

6



Gold medal, 5th annual international  
invention innovation competition in Canada,  
Tisias, iCan 2020, Toronto, Canada

*International  
Awards*

# *The last words*

**Somitra B.V. innovation  
& technical solutions  
for global challenges in  
Water & Gas meter**



**SOMITRA**  
BUSINESS GROUP



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