

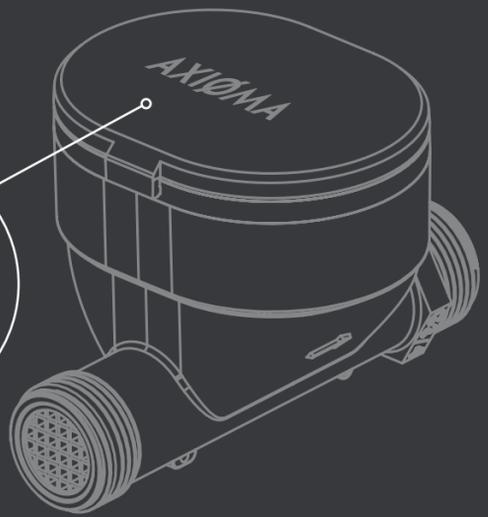
# Qalcosonic W1 for water metering reform project in Oman

## Client:

Public Authority for Electricity & Water (Diam)

## Ultrasonic water meter Qalcosonic W1

100 000 units



Oman

2019-2020



### PRODUCT AND ITS CHARACTERISTICS

DN15 and DN20

Temperature class T30, T50, T30/90, T90

R400

Protection class IP68

Nominal pressure PN16

Nominal flow Q4.0 m<sup>3</sup>/h



### CLIENT'S NEEDS

Oman's water metering reform required a reliable, efficient and flexible product, that would ensure highly accurate water metering and remote data transfer across the LoRaWAN network.



### PROJECT CHALLENGES

One of the major technical challenges of this project was the adjustment of water meters for very high ambient temperature. Solution to use different batteries in Qalcosonic W1 with increased capacity and temperature resistance was the most reliable way to adapt our meters for main project requirements.



### SOLUTION

Deployment of the LoRaWAN network in Oman.

Installation of new type of batteries into Qalcosonic W1 with increased capacity and temperature resistance.

Installation and integration of smart water meters.



### CLIENT COMMENTS

"We are glad to have chosen the Axioma Metering meters for our national water metering transformation project which is based on the Internet of Things technology. We hope to establish a long-term business partnership with this company",

NEC General Manager  
Abdullah Albadi

**AXIØMA**

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QALCOSONIC W1

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becomes  
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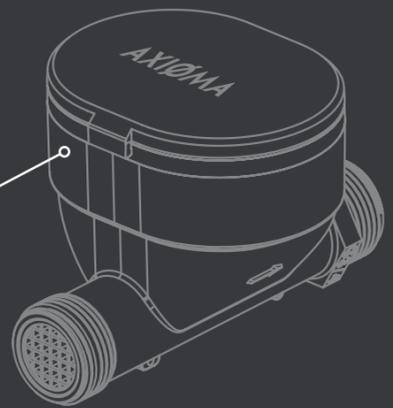


# Acquedotto Pugliese (AQP)

Client: Idea Srl

Ultrasonic water meter  
Qalcosonic W1

100 000 units



Italy, Bari,  
Apulia region

2020



## PRODUCT AND ITS CHARACTERISTICS

DN20

L190mm

Nominal flow  $Q^3$  4,0m<sup>3</sup>/h

Double communication



Temperature class T30

IP68

R800



## CLIENT'S NEEDS

Acquedotto Pugliese attempt to resolve several pressing issues in the region: to effectively use the existing water resources, calculate water consumption more precisely and manage water supply networks efficiently



## PROJECT CHALLENGES

This project comes with exceptionally high technical requirements: to ensure smooth data transfer, an individual data telegram is being created especially for this project by the company's RnD division



## SOLUTION

Double communication (LoRa and WMbus), the ability to transmit more data via LoRa network, stronger radio connection, individual data telegram



## CLIENT COMMENTS

Qalcosonic W1 is currently the market leader when it comes to technological innovation, quality and price

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