

**DIEHL**  
Metering

# AURIGA SINGLE-JET WATER METER

Rugged, compact,  
modular and sustainable



## WHY? OUR VISION.

### Empower a sustainable future.

Global trends have an increasing effect on our planet. Consequently, natural resources decrease. Water, for example, is a most valuable commodity. In the future, it will become even more valuable.

At Diehl Metering we believe in our duty to help building a better world. We take on responsibility. Our contribution: we design, develop and produce smart solutions to save water and to manage this resource more efficiently. We empower and innovate. For a sustainable future.



“Our vision for the future is to create a center of excellence and innovation to be a reference for Africa with AMI/AMR.

Our mission is to ensure access to safe drinking water in sufficient quantity and quality.”

SEN'EAU

## HOW WE MAKE A DIFFERENCE

### CUSTOMER FOCUS. DURABLE. STATE-OF-THE-ART TECHNOLOGY.



AURIGA single-jet water meter (composite/brass)

## OUR SOLUTIONS PERFORM. AN EXAMPLE ...

### Accurate and durable AURIGA water meters ensure Senegal's Water Supply & Management.

SEN'EAU, established in 2020, is responsible for managing Senegal Water Metering solutions, with the scope of supplying, installing, and billing customers in urban areas, serving over rather than 1M subscribers. The customer needed a highly accurate and durable meter to sustain high temperatures and extreme environmental conditions while maintaining its high metrology.

AURIGA was the most suitable meter to contribute to SENEAU's vision: to secure water for all subscribers and guarantee customer satisfaction through accurate billing. Furthermore, to ensure sustainable performance with a reliable supplier.

### CHALLENGES

- ▶ Improve on-time billing accuracy and reduce non-revenue water by efficient readings and exact meters
- ▶ Harsh installation conditions

### SOLUTION

- ▶ AURIGA single-jet (can be equipped with IZAR radio clip-on module)
- ▶ Suitable for demanding installations and all water conditions

### BENEFITS

- ▶ High durability and accuracy over time
- ▶ Value for money with best price/quality ratio

### You're at the center. And the value we bring to you. Over the long term.

We enable our customers to use water, thermal energy, gas and electricity intelligently. You receive a suitable solution for your specific requirement. Thus, your business will be successful. Our passion for innovation supports your empowerment and creates added value. Every Diehl Metering employee sees him/herself as a “solution provider” for you, our customers.

### Benefit for you, for the planet, for everyone: Long-lasting quality.

Indeed, in 2021, we signed the United Nations Global Compact, the initiative for sustainable and responsible management. Our products are eco-friendly because of their durability even in the roughest environments. Be sure that we use raw materials economically and efficiently. That we optimize resources and minimize waste.

### State-of-the-art technology. For water management. Against waste.

The AURIGA series provides you with single-jet technology at its best: good metrology performance and best price/performance ratio. Highly reliable and suited for the most restrictive and challenging environments. For efficient water management. To preserve one of the world's most valuable natural resources: water.

 **1 MIO**  
WATER CONNECTIONS

MANAGED BY SEN'EAU

 **175 K**  
AURIGA SINGLE-JET WATER METER

SOLD TO SEN'EAU

 **770 K**  
AURIGA

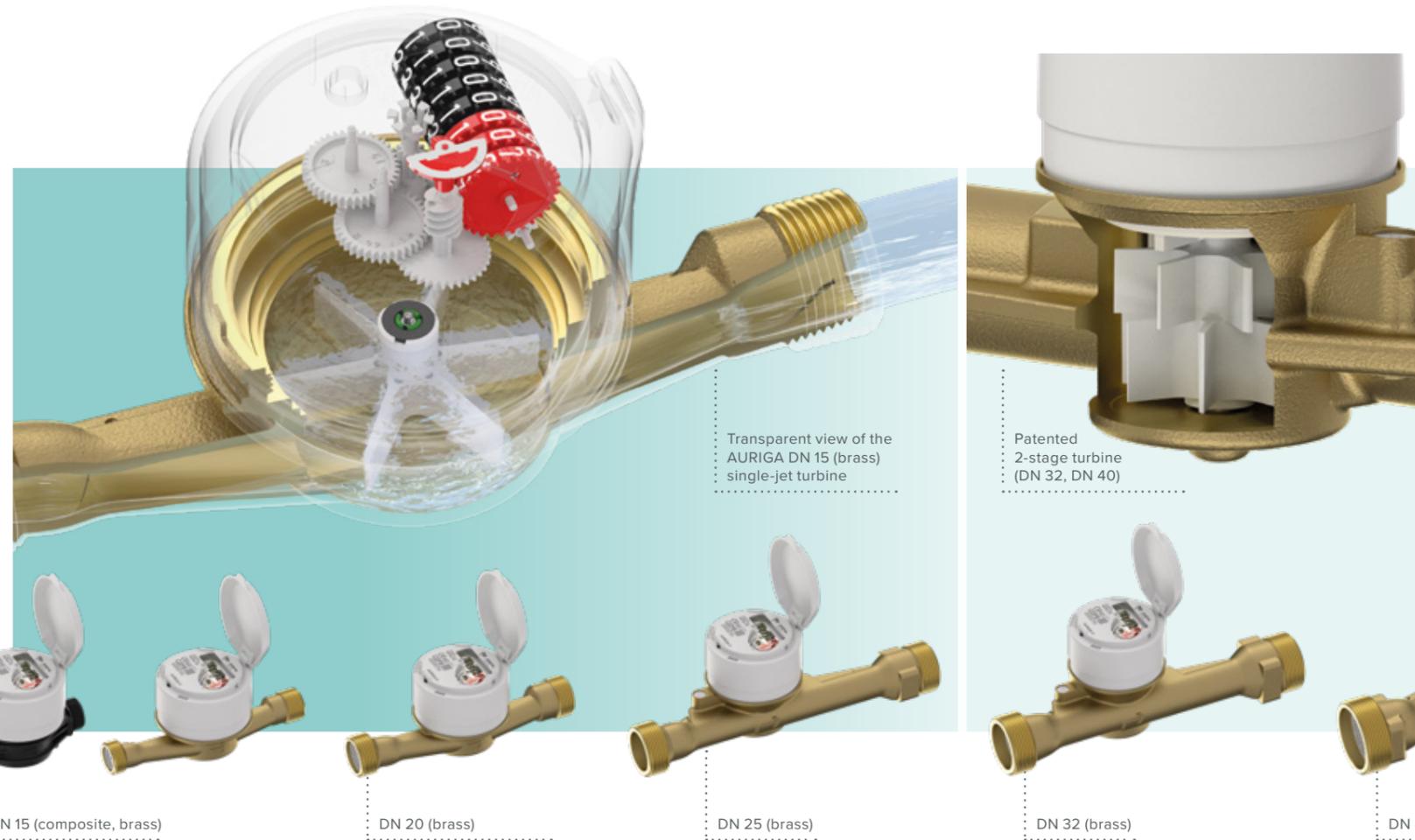
INSTALLED BASE IN AFRICA

# PRECISE METROLOGY

## LONG-TERM RELIABLE. GUARANTEED.

### MEASURING PRINCIPLE: single-jet turbine meter

This is how it works: water flows into the meter through the inlet pipe. The body sends the water to the turbine blades, causing the turbine to rotate. The water leaves the meter through the outlet pipe. The turbine movement is transmitted to the volume register by the gearing and the magnetic coupling.



### Patented 2-stage turbine for DN 32/40

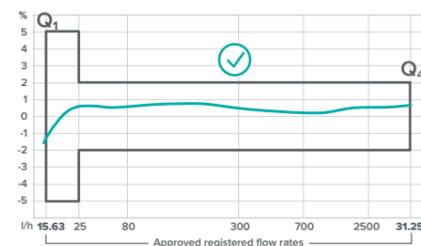
The compact body makes the meter easy to handle and to install. The 2-stage turbine ensures low head loss and thus an improved metrological curve, especially at low flow rates.

## AURIGA RANGE

### SINGLE JET METER

## EXCELLENT PERFORMANCE AND TAMPER-PROOF

### MEASURING DYNAMICS AURIGA DN 15 Q3 = 2.5 m³/h R160



- ▶ Approved up to R=200 (DN 25/32/40)
- ▶ Starting flow rate DN15: 3l/h
- ▶ 100% of the meters are adjusted and calibrated in production.

#### Your benefits:

Save money: combined with an IZAR radio module, AURIGA helps you to detect leaks quickly, thus reducing non-revenue water.

### TAMPER-PROOF DESIGN



- ▶ Magnetic fraud resistance, conform to EN 14154-3 and ISO 4064-2:2014
- ▶ Resistance to fraud attempt with clamp
- ▶ Resistant to hot needle or screwdriver fraud attempt
- ▶ Snap-fit plastic sealing ring: dismantling or modifying impossible without visible damage

#### Your benefits:

Always play it safe: your investment is secure. The data it provides are reliable.

## INTELLIGENT AND DURABLE

### LONG-LIFE ACCURACY



- ▶ High resistance to sediment-laden waters (sand, iron) and humidity, high ambient temperature, UV
- ▶ Low pressure loss

#### Your benefits:

AURIGA earns its money: it ensures smooth operation. Long-term. Varying water qualities? Challenging environment? No problem.

### INSTALLATION CHARACTERISTICS



- ▶ Suitable for demanding installation conditions (e.g. high temperatures)
- ▶ Horizontal and vertical position
- ▶ No calming sections (U0/D0)
- ▶ Indoor and outdoor installation

#### Your benefits:

Enjoy flexibility and maximum performance in every installation situation.

## REDUCED ENVIRONMENTAL IMPACT\*

### AURIGA COMPOSITE DN15 (DN15-110 & 15-115 R160)

The AURIGA composite meter considers the principles of Ecodesign: its body has been developed to minimize its carbon footprint. To make as little impact as possible on the environment.

- ▶ Less energy needed for production
- ▶ Reduced product weight
- ▶ Reduced shipping costs

\*AURIGA DN 15 composite versus AURIGA DN 15 brass.



## WHY PARTNER WITH DIEHL METERING? IT JUST MAKES SENSE.

Diehl Metering is a worldwide leader in the design, manufacture and supply of smart metering solutions. We empower our customers to take control of their infrastructures. To make water and energy management more efficient, sustainable and responsible. For an always better use of the natural resources we all rely on.

All of our meters are calibrated, **MID (Measuring Instruments Directive)** approved and hold Sanitary Conformity Certificates.

## MODULAR CONNECTIVITY

### VALUE CHAIN FROM HARDWARE TO SOFTWARE

#### NEED A COMMUNICATING METER? NO PROBLEM!

We offer a wide range of connectivity that adapts to your every need: each AURIGA can be equipped with either IZAR clip-on radio modules or IZAR wired connectivity modules, which are programmed with a set of alarms. You can order your AURIGA with an IZAR module already mounted, to raise your productivity in the field. Furthermore, our HRLc G3 LoRa module that integrates LoRaWAN® technology enables smart metering applications and the connection to smart city radio networks.

#### IZAR: A FLEXIBLE AND POWERFUL SYSTEM TAILORED TO YOUR NEEDS

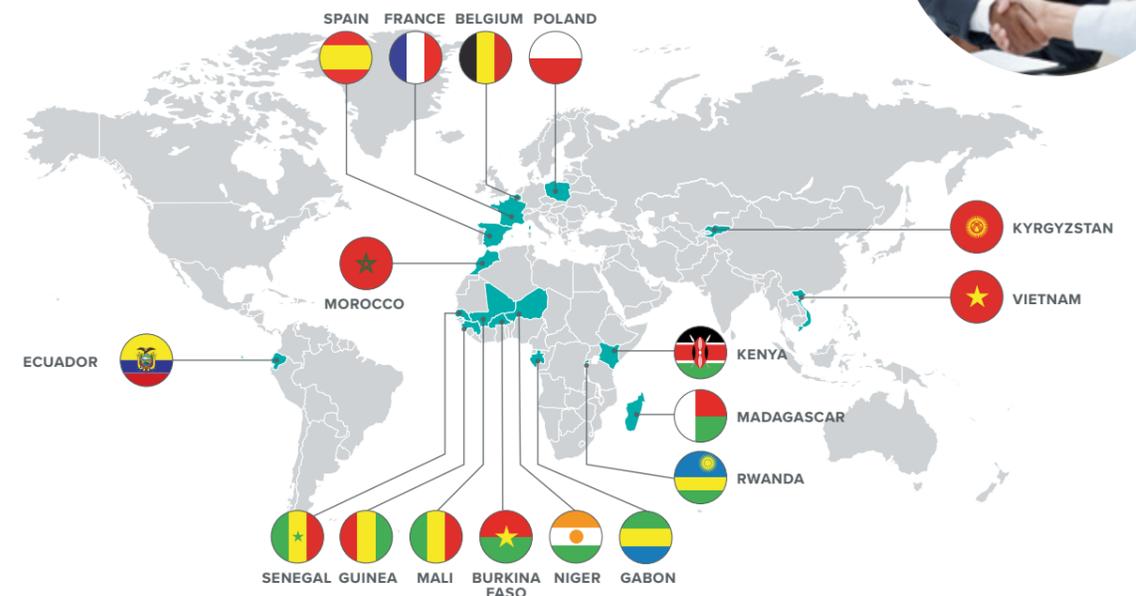
Our IZAR system has been providing radio communication in different protocols for over 25 years. You'll be convinced of its coverage and performance as well as of its data granularity and speed. Moreover, it is scalable and adapts perfectly to your network. With different reading modes coexisting, you can switch from one reading per year to daily reading to further optimise your water network, without replacing your IZAR module.

#### SOFTWARE FOR YOUR WATER LOSS MANAGEMENT

Take control! A leak of 1 l/hour over 12 months equals 8.76 m³ of unbilled water. Diehl Metering supports you to optimize the performance of your network and reduce the unbilled water: with our new IZAR@SMART WATER Water Loss Management (WLM) application, you track the non-revenue water levels in your distribution network. In case of a leak, you'll be informed at once and can react immediately to minimize water losses.



OUR CUSTOMERS TRUST US WITH AURIGA. ALL OVER THE WORLD.



**OVER 20 MILLION**  
SINGLE-JET WATER METERS  
SOLD WORLDWIDE (SINCE  
1996) TOP SELLER IN AFRICA,  
VIETNAM AND ECUADOR



**40 YEARS**  
EXPERIENCE IN  
DEVELOPING  
SINGLE-JET  
TECHNOLOGY



**AWARDS**  
ECOVADIS GOLD  
(SOCIAL RESPONSIBILITY)  
IN 2021 & 2022



**60 MILLION**  
COMMUNICATIVE  
METERS AND RADIO  
MODULES INSTALLED  
WORLDWIDE

**MEMBER**  
OF THE UNITED NATIONS  
GLOBAL COMPACT SINCE 2021

**INTERESTED?**  
LET'S TALK ABOUT  
**YOUR** CHALLENGES!



