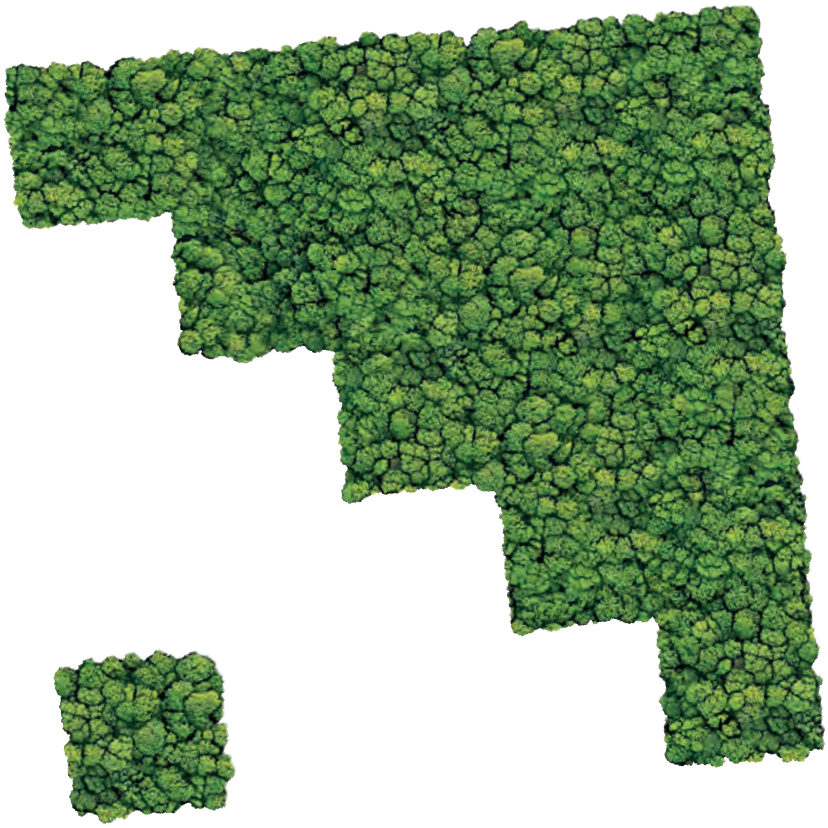


ISOIL INDUSTRIA

The solutions that count

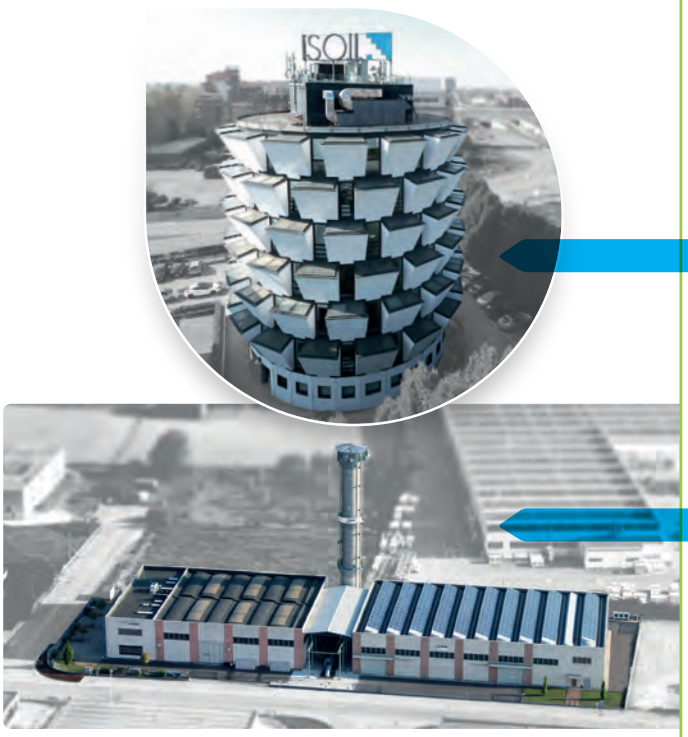
Mindful of a world that requires measure

OBJECTIVE ZERO

- Waste
- Dispersion
- Inefficiency
- Error

for the resources on which we count on.

The objective of improving since



EFFICIENCY THAT IS GOOD FOR THE ENVIRONMENT

ISOIL Industria's mission is **to reduce consumption, emissions and impacts**. We provide products, systems and services **to optimize efficiency and avoid wasting resources**.

SOLUTION WORTH THE FUTURE

This is how we at ISOIL express the values that inspire us and the will which drives us in all the company's activities.

We believe in acting sustainably, a choice able to guarantee the future by improving the environment in which we live. **Responsible ethics guide our work**.

We offer cutting-edge measuring instruments, systems, solutions and services able to meet today's needs for **innovation, quality and data and measurements security**.

We provide solutions that "count" in the field of measurement automation, industrial processes and fluid control.

We want to establish **long-lasting relationships** with our customers, based on trust and mutual esteem.

We are committed to using every occasion of the relationship and work as an **opportunity for human growth**.

Our **core values** are illustrated in our **ethical code**, have a look at them.

1958 **ISOTHERMIC SWISS** is born, commercializing, exclusively for Italy, instrumentation of leading foreign companies.

1970 **OIL METER** is born for the construction of volumetric meters and related accessories for the oil and chemical sector.

1988 **ISOIL GROUP** starts from the merger of Isothermic Swiss and Oil Meter.

1993 Transfer of offices to the new **ISOIL** tower in Cinisello Balsamo.

Establishment of **OIL METER SISTEMI**, a company that deals with software for the automation of industrial processes

Manufacturing starts of electromagnetic meters **ISOMAG®.**

1998 **HEMINA** is born, the new production center for **ISOMAG®** electromagnetic meters.

2000 The Group creates two new companies: **ISOIL IMPIANTI**, specialized in the handling of hydrocarbons; **ISOIL Industria**, which continues to market instrumentation from leading foreign manufacturers and its own **ISOMAG®** line.

2006 Launch of the innovative **FLOWIZ®**, the world's first battery-powered electromagnetic flowmeter, equipped with an internal data-logger and GPRS wireless communication.

2011 Launch of the new **ISONRG®** line for thermal energy metering.

The Brazilian branch **ISOIL LAMON LTDA** is founded.

2012 The **ISOIL Industria HONG KONG LTD** branch is founded**.**

2013 Accreditation of the **LIBRA** division calibration system, in compliance with the **IS017025** standard.

The **ISOFLUX®** line ultrasonic meters is launched.

Launch of the **ISOD@M®** data acquisition and management software.

2016 Calibration line n.8 for sensors up to 3 meters in diameter goes into operation in the **LIBRA** system.

2017 Acquisition of **MORE**, start-up to offering on-site environmental monitoring services.

2019 Another record for **FLOWIZ®**: the world's first electromagnetic flowmeter that also works with integrated alkaline batteries.

OUR MARKETS

WATER

- Distribution and leak detection
- District metering (DMAs, SMAs, Zones)
- Commercial metering
- Non revenue water (NRW)
- Well water metering
- Supply management

WASTEWATER

- Water treatment
- Landfill leachate monitoring
- Additive mixing
- First flush water monitoring

IRRIGATION

- Irrigation monitoring
- Dosing of fertilizers
- Water billing

HVAC & R

- Energy measurement and distribution
- Energy efficiency
- Custody Transfer
- Co and Tri-generation
- Superheated and chilled water
- Data Center
- District heating
- Building Automation

FOOD & BEVERAGE

- Filling machines
- Dosing/Batching
- Blending
- Beverage transfer measurement

GENERAL INDUSTRY

- Mining
- Pulp & Paper
- Chemical
- Additive mixing
- Shipbuilding
- Cement production

CERTIFIED QUALITY

ISOIL Industria customers can count on high certified **quality, sustainability and safety**.

Our **Environmental Management System** complies with the most advanced standard: **UNI EN ISO 14001**. The **ISO 9001 Quality Certification** guarantees advanced quality, production and management standards.

Our 0production center certified **ISO 9001, PED, MID mod. D** and **ISO 45001** for safety in the workplace.

All instrumentation produced and marketed by **ISOIL Industria** are **certified and compliant with the most stringent European and world standards** (ATEX, PED, SIL, MID, etc.). Further product certificates are issued by foreign bodies according to the standards in force in the respective countries.

The ISOMAG® ISONRG®, ISOFLUX® lines have:

MATERIALS & PROCESSES CERTIFICATIONS

ICIM · ICIM · A3 · NSF (Certified to NSF/ANSI/CAN 61) · WRAS APPROVED PRODUCT · DM 174

METROLOGICAL CERTIFICATIONS

MID MI-001 · MID MI-004 · OIML

COMMUNICATIONS CERTIFICATIONS AND COMPLIANCES

HART COMMUNICATION PROTOCOL · Modbus · Wi-Fi · 3G · M-Bus · BTL · dnp

PRODUCT LINES

ISOMAG®

The friendly magmeter

ISOMAG® is a full range of **electromagnetic flow meters from DN3 to DN3000** and pressure up to 250 bar and temperature up to 180°C.
They are available in compact or separate version, flanged or wafer (up to DN400) mounting, with a wide range of options for electrodes and lining materials.
A range of **insertion electromagnetic flow meters** allow convenient installation and removal from the pipe while under pressure.

Key features of the ISOMAG® line are:

- **alkaline/lithium** batteries or Mains powered systems;
- Built in Verification for (BIV) for **self diagnostic umts/gprs wireless communication**;
- **Zero upstream and downstream straight DNs**, under **ISO7145-BS1042** test conditions;
- **IP68 protection rate** available on all sensors and most converters.

ISOFLUX®

The ultrasonic meter

A range of **ultrasonic flow and heat meters for water**.
The **ISOFLUX®** series includes **clamp-on non-invasive ultrasonic meters**, in line ultrasonic water meters and ultrasonic **heat meters**.
Application fields comprise simple **water metering** to accurate measurement of **thermal energy consumption** and **heating/cooling**.
Ultrasonic flow meters can be **battery or mains powered** for installation in closed or open loop heating and water consumption systems.

Key features of the ISOFLUX® line are:

- **Single pair of sensors from DN50 to 3000 mm** and **fluids up to 250°C** (clamp-ons);
- Up to **100 days of battery life** (clamp-ons);
- **Single or dual ultrasonic beams** (in-line water meters);
- **BMS human interface** and **Wireless communications** (heat meters).

ISONRG®

Managing energy

A range of meters to **calculate Thermal Energy**.
The energy meter **can be connected to any kind of flow meter with pulse or analog output** such as: Turbines, Volumetric Woltmann, Impellers, Single or Multi jet, Ultrasonic (e.g. **ISOFLUX®** series) and Electromagnetic meters (e.g. **ISOMAG®** series). **ISONRG®** is **MID-MI004 certified** referring to **EN1434 standards** according to European Directives 2004/22.
The **ISONRG®** heat meter is suitable for fluids such as water or water-glycol mixtures and has an automatic switch from hot to cold seasons.

Key features of the ISONRG® line are:

- **Full system MID certification with ISOMAG®, even with glycol mixtures**;
- **Multiprotocol** outputs, **data-logger** and **back-up battery** available;
- **BACNET certified**;
- May use **PT100**, **PT500** or **PT1000 thermal probes**.

ISOD@M®

Managing data

Data Acquisition & Management Software

ISOD@M® is the **digital platform for data acquisition** from field instrumentation.
It allows users to **easily retrive data from field devices**, reducing time and efforts for data analysis. Based on the latest technological architecture, the platform provides high level results thanks to **advanced data mining capabilities**. Users can create their own target to improve system knowledge and control, **enhancing accuracy and diagnostic**.

Customizable thanks to a complete series of optional packages: advanced data analysis, **leak detection and analysis**, **predictive maintenance**, **geolocation** and **export of collected data to external systems**.

Key features of the ISOD@M® line are:

- **Acquisition Platform System (SaaS)**;
- **Cloud or Local installation**, depending on client needs;
- **Multi User and Multi Level Access** with **full data protection**;
- **One single software managing different data inputs**.

CERTIFIED CALIBRATION SOLUTIONS

LIBRA

Accredited according to UNI EN ISO/IEC 17025

ACCREDIA

LAT N° 237
Mutual Agreement Recognition Member of EA, IAF and ILAC

With the **LIBRA** Division we can issue calibration certificates with the ACCREDIA mark for **any type of liquid flowmeter**.

The reference standard used for calibration is **UNI EN 24185**.

The LIBRA calibration laboratory is operational at Hemina s.p.a., the ISOIL Industria production center.

Unique in Italy for its size, and among the largest in Europe, the LIBRA laboratory consists of systems and devices for the **calibration of measuring instruments** for the following physical quantities:

- volume (totalized);
- flow rate;
- mass (totalized);
- mass flow.

8 CALIBRATION LINES

The plant consists of eight lines for **flow rates from 0.003 l/s up to 4000 l/s**. Each calibration line is designed for the hydraulic connection of certain devices with nominal diameters ranging from DN3 up to DN3000.

The lines have been certified for the verification of water meters in accordance with the European Directive 2014/32 / EU specifications.

The 8 lines use **different calibration methods**: static weighing, direct comparison with Master Meter or with sample volume.

The calibration line for **large diameters** has a piezometric tower with a height of 44.5 meters and a diameter of 4.2 meters, entirely made of stainless steel and suitable for calibrating meters with a maximum diameter of 3000mm and a capacity of up to 4,000 l/s.

AUTOMATED CALIBRATIONS

The management of all calibration orders is **fully automated** and is directly linked to the software system issuing **Certificates of Calibration** at the end of the tests.

Stainless steel piezometric tower for the calibration of large DNs

Calibration line up to DN3000

Calibration lines from DN03 to DN800

ENVIRONMENTAL SUSTAINABILITY

ISOIL is committed to prevent pollution, to guarantee the safeguard and protection of the environment and to pursue the continuous improvement of its environmental performance by minimizing the risks related to the activities carried out and the products / services provided.

MEASURING IS THE FIRST STEP TO GET AWARENESS.

Success to us is the result of the ability to offer customized products, systems and services, capable to satisfy the needs of all customers oriented towards safeguarding environmental resources.

We believe that our real asset is our people.

Our constant attention is given to the quality of the human relationship with the customer, the supplier and among ourselves, convinced that work is an extraordinary opportunity for human enhancement.

The primary objective is placed in the search for quality in the work we do and in the environment in which we operate, to bring out and cultivate those human and professional faculties that make up our true legacy.

ISOIL Industria s.p.a.

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ISOIL INDUSTRIA
The solutions that count

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