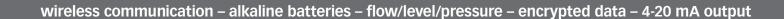
# FLOWIZ - ®

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The new generation of battery flowmeters



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#### THE FLOWIZ<sup>®</sup> FAMILY

The MV series of FLOWIZ<sup>®</sup> is the third generation of battery powered converters for ISOMAG<sup>®</sup> electromagnetic flow sensors, deriving the benefits from fifteen years of experience in development and constant improvement since the first introduction of FLOWIZ<sup>®</sup> in 2004.

The result is a converter with **excellent performance**, able to **integrate pressure and/or temperature sensors**, with **ultra-efficient power management** guaranteeing an unparalleled operating duration from the **integrated alkaline or lithium batteries**.

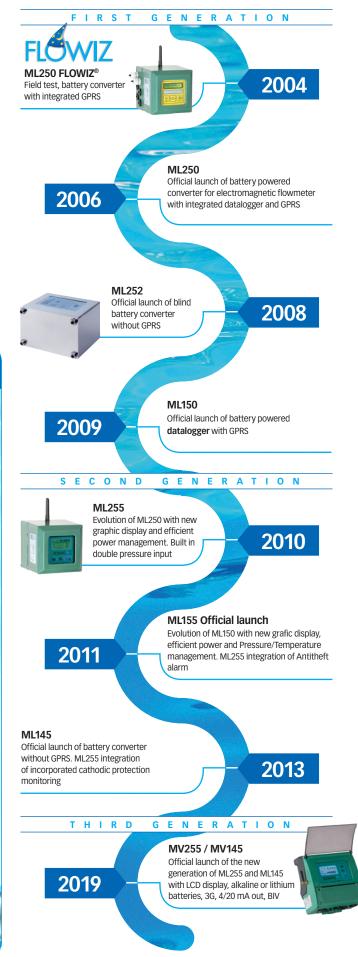
The new series of converters has numerous **process outputs** to interface with acquisition or control systems, including **Modbus or 3G modem** for wireless communication via Email or FTP.

The converters of the MV series can be used with any ISOMAG<sup>®</sup> electromagnetic sensor both insertion and full bore up to DN1800. Legal metrological use is possible as the converters combined with the MS2500 flanged meter are MID MI-001 and OIML R49 certified.



2019 WORKING WITH INTEGRTED ALKALINE BATTERY UP TO 10 YEARS

### FLOWIZ® EVOLUTION



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# **FLOWIZ® KEY FEATURES**



3G wireless communication protocol

Battery powered (also with alkaline Type D batteries)



**BIV:** Built In Verificator to monitor and store sensor and converter status



Modbus Protocol over RS485

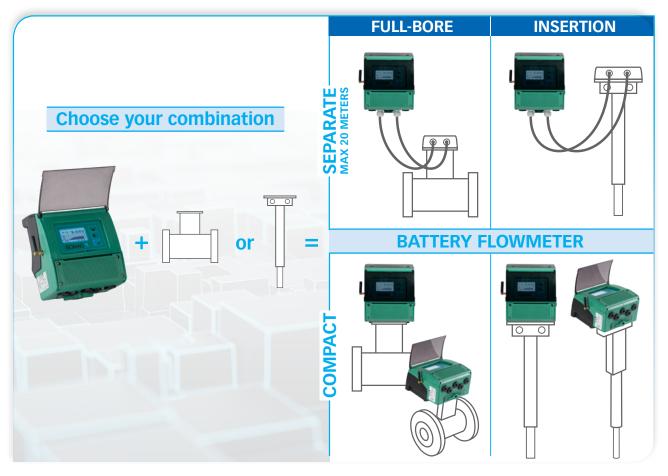
- Encrypted data file
- - OIML R49 & MID MI-001
    - 4...20 output either passive or active

# THE RIGHT SOLUTION FOR YOUR APPLICATION



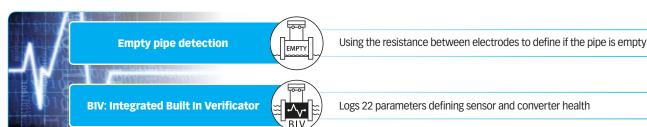
# INSTALLED SOLUTION







# INTEGRATED DIAGNOSYS



# BIV and IsoBIV

Built In Verificator (BIV) consists in a tool, integrated in the converter, if required, that automatically and periodically makes a check of vital electrical characteristics of the sensor and converter (22 parameters on converter conditions, flow-tube signal, electronic measuring circuit and sensor magnetic field formation).

IsoBIV tool, instead, allows onsite verification of flowmeter with or without integrated BIV.

Through the use of IsoBIV software the data collected by BIV or IsoBIV are automatically compared with reference data to define the "health" of the system also by color codes.

This feature fullfills user requirements that needs to have evidence that the meter is properly working.





# **EFFICIENT POWER MANAGEMENT & CONFIGURATIONS**

Flowiz<sup>®</sup> family takes advantage from years of improvements in battery powered flowmeter. It results in a perfect mix of high measuring accuracy, performance and power management efficiency:

#### • Internal set of batteries to reach the following maximum lifetime:

BATTERY TYPE	MV145	MV255 WITH DAILY TRANSMISSION
Lithium	>15 years	>15 years
Alkaline	Up to 10 years	Up to 5 years
	Lithium	Lithium >15 years

Above data are estimated using well stored industrial batteries at ambient temperature.

- Battery replacement without stopping the measure;
- 4 different settings to configure sampling frequency and optimize battery consumption (Continuouse mode 10Hz, 1 sec. sampling mode, 2 sec. sampling mode);
- Different configurations of battery type and main power

	BATTERY TYPE	WITHOUT MAIN POWER	100240 VAC	1248 VDC
Non rechargeable	2 Lithium	MV145/MV255	MV145	MV145
	4 Lithium	MV145/MV255	MV145	MV145
	6 Lithium	MV145/MV255	MV145	MV145
	6 Alkaline	MV145/MV255	MV145	MV145
Rechargeable	Lithium		MV255	MV255
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#### **COMMUNICATION**

MV255 allows to receive commands and send data, alarms and events via wireless connection to USERS or to ISOD@M.

It is equipped with a micro SD memory to record data (measurements) and events, which are stored in directories.

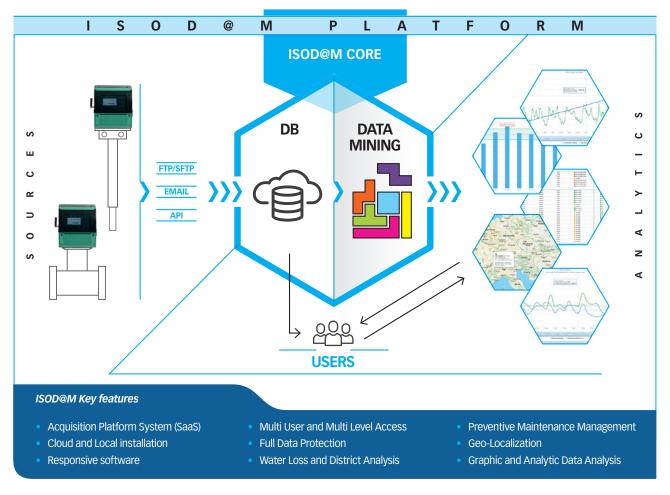


#### **DATA SECURITY**



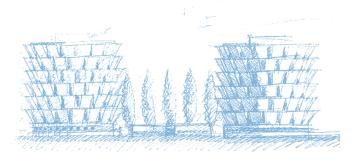
### ISOD@M: DATA ACQUISITION AND MANAGEMENT SOFTWARE

ISOD@M 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**.











Isoil Industria is a worldwide leading supplier of electromagnetic flowmeters. On the market since 1958, the company has been concentrating its efforts and expertise through the years towards the evolution of the electromagnetic flowmeters technology. It is worldwide recognized and present in all Countries through distributors and agents, and with branch offices in Brazil and Hong Kong.

#### Isoil Industria SpA

Head Office

20092 Cinisello Balsamo (Milan) Italy 27, via F.Ili Gracchi Tel. +39 02 66027.1

#### Isoil Lamon

Brazil Branch

110, Rua Crepuscolo – B. California 30,421-260 – Belo Horizonte MG – Brazil

#### Hong Kong Branch

#### Isoil Industria Hong Kong

Unit D4, 4th floor, Efficiency House 35 Tai Yau Str. – San Po Kong Kowloon – Hong Kong

#### Production and Warehouse

#### Isoil Industria - Hemina SpA

1, via Piemonte 35044 – Montagnana (Padua) – Italy





