

# SIEMENS

*Ingenuity for life*

## Cost-efficient management of water consumption

World-class water loss prevention at a  
lower cost



Water is necessary to sustain life, but in many parts of the world it is becoming increasingly scarce. As governments enact stricter legislation in an effort to preserve this vital resource for future generations, the irrigation industry faces a formidable challenge: more carefully managing water consumption and waste prevention while still remaining profitable.

As a knowledgeable partner in process instrumentation, Siemens understands the [usa.siemens.com/mag](http://usa.siemens.com/mag) needs of today's irrigation industry. Building on the strengths of the trusted SITRANS F M MAG 8000 family of battery-operated electromagnetic flow meters, we are proud to offer the ideal water metering solution.



### SITRANS F M MAG 8000

The MAG 8000 ensures prevention of water waste through a unique and money-saving combination of features:

#### Battery-powered for greater flexibility in the field

The meter can operate on mains power and use the battery as a redundant means to continue metering even with the loss of power!

#### Accuracy beyond industry standards

SITRANS MAG 8000 flow sensors can be installed without any straight runs of pipe required by other types of meters. Accuracies of plus or minus 2% can be achieved with zero diameters upstream and downstream of the flow meter. With standard upstream and downstream mounting accuracies of  $\pm 0.4\%$  of rate can be reached or if a higher accuracy is needed 0.2% can be achieved.

#### Maintenance-free operation

No moving parts means no maintenance other than battery replacement, in intervals of 6 to 10 years. No bearings, no gears, no loss of accuracy over time.

#### Tamper-proof and robust

IP68 enclosure offers security and durability for installation in flood-prone areas or even entirely underground.

#### Flexible communication

Optional modules are available for trouble-free wireless communication to your future or existing network system.

#### Qualification certificate

The SIMATIC PDM tool allows on-site testing and validation of the meters key sensor data, and creates a printed qualification certificate with specific data defining the performance status of the flow sensor.

#### Wireless solution

Siemens offers the base for a complete wireless automated meter reading (AMR) solution designed for use in Water Fixed Networks. Data from the site can be directly accessed over the Internet using a standard browser and secure password protection.

Few resources are as vital to the human population, and the global economy as water. To ensure the continuous preservation of this valuable commodity, the water industry has come to rely on the versatile SITRANS F M MAG 8000 program.

Accuracy, reliability and flexible installation are the reasons to select Siemens as your flow measurement partner.

#### SITRANS F M MAG 8000 has the following specifications:

Transmitter Type	Basic version
Accuracy	$\pm 0.4\% \pm 0.1 \text{ ft/s}$
Sensor size	1 – 48 inch
Enclosure sensor and transmitter	IP68 / NEMA 6P, compact and remote with connectors and factory-mounted cable
Output	2 individual pulse outputs (incl. net flow volume)
Communication	Integrated standard IrDA interface, add-on communication modules, RS 232 / RS 485 with MODBUS RTU protocol, encoder interface module (output) with sensus protocol and GSM/GPRS wireless module (optional).
Power supply	Internal or external battery pack 12 – 24 V AC/DC and 115 – 230 V AC with battery backup
Certifications	NSF
Process connections	ANSI 150 lb (to 24 inch), AWWA Class C (28 inch and larger)
Operating pressure	275 psi (flange dependent)
Media temperature	32 – 158 °F
Electrodes	Hastelloy C

Siemens Industry, Inc.  
Process Industries and Drives  
100 Technology Drive  
Alpharetta, GA 30005  
1-800-365-8766  
info.us@siemens.com

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