

SiloMetric



Product Description

Silometric LM sensor uses laser technology to measure the level of solid material inside silos and bins.

 SiloMetric®

 **Solid Materials**


Easy to install,
wireless

Low maintenance

Customization of the
measuring frequency

Powered with long
last battery

Data sheet

Model	LM-1	LM-100 INDUSTRIAL
Material	 Solid materials , not recommended in dusty environments.	
Measuring range	Up to 10 m.	Up to 40 m.
Working temp. range	From -15° to + 55°.	
Voltage	Lithium Battery 3.6 V. Capacity 8,500 mAh.	Lithium Battery 3.6 V. Capacity 8,500 mAh.
Battery life	Measures every 2 h: Up to 4 years. Measures every hour: Up to 2 years. En continuo: not recommended with battery	
Sensor	Class II laser, <1mW, 635 nm.	
Accuracy	+/- 3mm.	
Measuring frequency	Every 2 h. Customizable.	
Case	IP65. High density polypropylene. UV protection.	
Communication	Wireless. Radiofrequency, free frequency bands: 433 Mhz, 868 Mhz, 905 Mhz, 922 Mhz, depending on the country.	
Data	<ul style="list-style-type: none"> • The data measured by the Fluidmetric can be visualized in the web DIGITPLAN. • Data Export to a .xls file. • Data integration with other systems using a Web Service or Modbus protocol. • Data visualization with Panel View Pi-100. 	
Dimensions	335 x 120 mm.	

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Optionals

Continuous reading

Customizable reading.

12V power supply is required in continuous reading.

Installation

Drill a hole in the superior part of the bin, we recommend to use a 40mm drill crown. Place the **rubber gasket (3)** under the **support kit (2)**. Make sure that the **Silometric (1)** will be focusing the center of the silo before fixing the **support kit (2)**. Use the screws provided to fix the support. Place the **Silometric (1)** through the support kit, place the **packing rings (6)** between the support and the **Silometric (1)**. Finally fix the **screws (5)** adjusting the correct inclination .

Check the **Mounting Manual** for more detailed information. No need of activation, device ready to use.

Silometric parts



- ① Silometric Device
- ② Support kit
- ③ Rubber gasket
- ④ Autodrilling screws.
- ⑤ Inox M-6 screws
- ⑥ Inox M-6 packing rings

Certifications



MCSystems declares under our sole responsibility that **Silometric** complies with the applicable requirements of the EC Directive and the current standards.



None of our products contains lead.



SiloMetric Radar



PRODUCT OVERVIEW

Silometrics RM is a wireless sensor using radar technology for level measurement of solids in silos, bins and tanks. Specially designed for powdery materials.

 SiloMetric®

- Solids
- Powdery materials

Easy installation,
no wiring

Maintenance free

Customizable reading
frequency

Long battery life

TECHNICAL SPECIFICATIONS

Model	RM-1
Product type	<input checked="" type="checkbox"/> Product type Solids, recommended for powdery products.
Measuring range	Up to 10 m.
Working temperature	From -40° to + 85°
Power supply	7.2 V Lithium battery. Capacity of 8.500 mAh.
Battery life	Reading every 2 hours: Up to 4 years. Reading every hour: Up to 2 years. Continuous: not recommended with battery.
Sensor	60 GHz Radar.
Accuracy	+/- 5 mm.
Measurement	Programmed readings every 2 hours. Possibility of customization.
Housing	IP65. High density polypropylene, reinforced with fiberglass. UV treatment.
Type of communications	Wireless. Radio frequency, free band use: 443 MHz, 868 Mhz, 905 Mhz, 922 Mhz, according to country.
Data	<ul style="list-style-type: none"> • Silometric readings can be consulted on the Digitplan web platform from any electronic device with an Internet connection. any electronic device with Internet connection. • Possibility of exporting the data to a file in .xls format. • Possibility of obtaining data through a web service or through Modbus protocol. • Possibility of data visualization in Panel View Pi-100, in local mode.
Dimensions	275 x 120 mm.

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OPTIONALS

Continuous measurement

Customized time between readings on request.

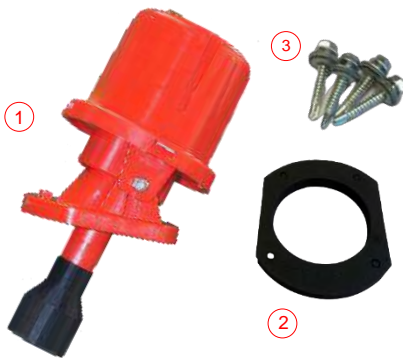
12V power supply in case continuous readings are required.

INSTALLATION

Drill a hole in the upper part of the tank, it is advisable to use a drill with a 51 mm bit. Adjust the **rubber gasket (2)** on the lower part of the **support**, screw the **support** tightening it on the hole, presenting the **Silometric device (1)** with the inclination that we will have to mount it. Mark the position of the **support** with a pencil and mount it with the self-drilling screws. Place the **Silometric device (1)** inside the support, interpose the washers between the **Silometric device (1)** and the **support**, finally screw it with the screws, adjust the inclination and tighten to fix it.

Consultar el **Manual de Instalación** para información más detallada.
No requiere puesta en marcha, programado de fábrica.

ASSEMBLY KIT



- | | |
|---|----------------------------------|
| ① | Silometric Device |
| ② | Rubber seal |
| ③ | 4.8 x 32 mm self-drilling screws |

Certificates



MCSystems declares that the **Silometric** product complies with current regulations and standards.



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