



PRODUCT LEVEL SOLUTION FOR INDUSTRIAL USE

TAKE CONTROL. BE SMART.

Your smart choice for **MySILO** management





MCSystems main goal is offer technological solutions that allows, stocking and managing process be automated by the use of our own designed and manufactured solutions, on continuous development and adaptable to client's needs and requirements.

Thanks to our measurement, monitoring and data managing systems, MCSystems offers reliability, commodity and safety in terms of logistic and labour activities. Our wide range of solutions cover from agribusiness to industrial use.

TAKE CONTROL. BE SMART.

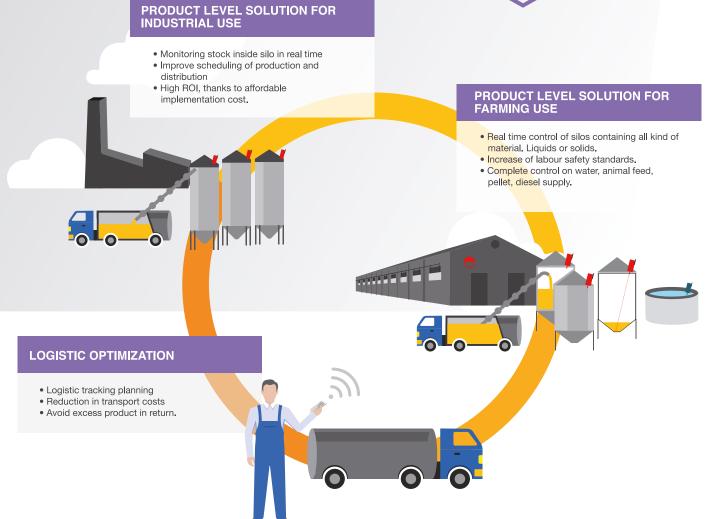




PRODUCT LEVEL SOLUTION FOR INDUSTRIAL USE







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SIMPLICITY

- Wireless.
- Maintenance free.
- Requires no calibration.
- No need for electronic power supply.

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ADAPTABILITY

- Does not matter how big the storage silo, bin or container are.
- Programmable measure frequency.

- Ingress protection IP65.
- Wide range of working temperature.



RAW MATERIAL VERSATILITY

 Accurate measurement of bulk solids regardless of the type of material or product characteristics.

✓ HIGH PERFORMANCE

- Low consumption.
- High battery durability.
- Very accurate measurements.



LABOUR SAFETY

• Improve labour safety, avoiding climbing silos for manual double-checking.

SILOŞMART

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www.silosmart.com.au

www.mcsystems.es

MYSILO by MART



Wireless and easy to install laser sensor for bulk materials stored inside silos or bins.



DIGITPLAN, THE APPLICATION THAT MONITORS AGRICULTURAL OR INDUSTRIAL FACILITIES IN REAL TIME

User-oriented monitoring software, where user can control the status of your installation in real time, using data obtained from the various level sensors (Silometric or Fluidmetric) or temperature sensors (SecurDetect), through any electronic device connected to the Internet.

Features

- Multiplatform.
- Real-time status and inventory display.
- Consultation of historical data in graphic format, exportable to a spreadsheet (csv).
- Geo-location of the devices.
- Low level alarms configuration
- Possibility of integration with other programs.

FluidMetric®

V Liquids

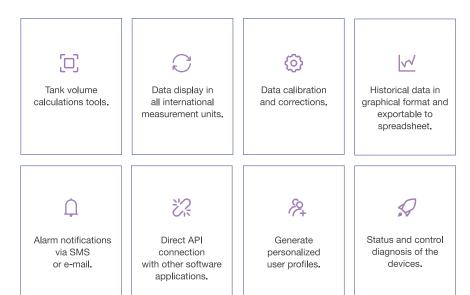
Wireless ultrasonic sensor, suitable to measure the level of liquid products stored inside tanks.



SecurDetect®

Wireless device for different environmental condition detection. The sensors can be equipped to detect temperature, moisture, enlightenment, tilts, vibration, gasses, intrusion, etc

Services





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SiloMetric

Product Description

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

Easy to install, wireless

Low maintenance

Customization of the measuring frequency

Powered with long last battery

🔿 SiloMetric®

Solid Materials

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 7,2 V. Capacity 19.000 mAh.	Lithium SAFT Battery 7,2 V. Capacity 19.000 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	 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.		

SILOMETRIC · Data sheet · March 2019





Optionals

Continuous reading

Customizable reading.

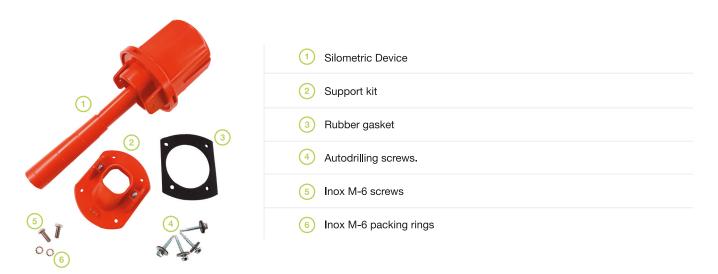
12V power supply is required in continous reading.

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, deviced ready to use.

Silometric parts



Certifications

CE

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

ROHS

None of our products contains lead.

SILOMETRIC · Data sheet · March 2019



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FluidMetric

Product Description

Fluidmetric is a wireless device that uses a rugged ultrasonic sensor to measure the level of liquids inside silos or tanks.

Easy to install, wireless

Low maintenance

Customization of the measuring frequency

Powered with long last battery

FluidMetric[®]

✓ Liquids

Data sheet

Measuring range	From 30 cm to 10 m.
Working temp. range	From -40° up to +65°.
Voltage	Lithium Battery · 7,2 V · 19.000 mAh.
Battery life	Measures every 2 h: Up to 5 years.
Sensor	Ultrasound with robust PVC housing which meets the IP67 water.
Accuracy	+/- 3 mm.
Measuring frequency	Every 2 h. Customizable.
Case	IP65. High density polypropylene. UV protection. Size: 335 x 120 mm.
Communication	Wireless. Radiofrequency, free frequency bands: 433Mhz, 868Mhz, 905Mhz, 922Mhz, depending on the country.
Data	 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.

FLUIDMETRIC · Data sheet · March 2019







Optionals	
Reading Frequency	Customization on request. External power supply needed if continuous reading required.
IP68	Praylene coating arround the transducer to prevent corrosion.
Anticorrosivo	Flurosilicone treatment arround the sensor with an addition back up FET Teflon for more chemically inert selling.

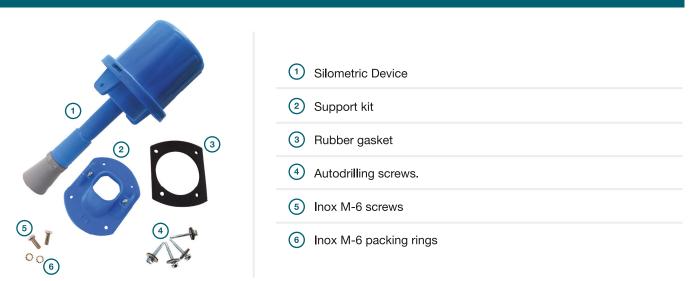
Installation

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 **Fluidmetric (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 **Fluidmetric (1)** through the support kit, place the **packing rings (6)** between the support and the **Fluidmetric (1)**. Finally fix the **screws (5)** adjusting the correct inclination.



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

Silometric parts



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FLUIDMETRIC · Data sheet · March 2019



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PANEL VIEW Pi-100

Product description

The **PANEL VIEW Pi-100** is a communication device capable of concentrating the packets coming from the radio network formed by different sensors or Silometric® equipment and showing the received values in a graphical way.



Technical specifications

Capacity	No limitation of Silometric [®] devices.
Distance range	300 m without obstacles.
Protocols	IEEE 802.3, IEEE 802.11
Power supply	5V – 3A
Dimensions	20 x 5 x 11,5 cm (width x depth x height).
Communications	Wireless, radio. Frequency 433MHz, 868MHz, 905Mhz or 922MHz depending on the country.

Optional

Possibility of connecting the equipment to the Internet, enabling the supervision and control of the data through the Digitplan[®] web application.

Instalación

Connect the device to a 5V and 3A power supply and screw the antenna.

Place the Panel View Pl in a centred position of the other silometric devices, where there is the best possible visibility between the **Panel View Pl-100** and the Silometric[®].

Certifications



MCSystems declares that the Panel View Pi-100 product complies with current regulations and standards.

PANEL VIEW Pi-100 · Technical specifications · March 2019



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SecurDetect · Multisensor

Product description

Wireless device for different environmental condition detection. The sensors can be equipped to detect:

- Moisture
- Temperature
- Enlightenment
- Tilts
- Vibration
- Gasses
- Intrusion



Easy to install, wireless

Low maintenance

Technical specifications:

Measuring frequency	Programmable lectures every 2 hours.
Voltage	Replaceable battery CR123A 3V. 1.500 mAH.
Case	IP67. Dimension: 85x80x50mm. Weight: 180gm.
Communication	Radio frequency 868 Mhz, 905 Mhz or 922Mhz according to countries current regulations.

Optional

*CO2 sensor, Specific sensors might require external power supply.

Programmable lectures frequency.

Possibility to add different sensors according to client's requirements.

Temperature probe tube, until 2,5m length.

SECURDETECT · Technical specifications · April 2019







Installation and start up

Wall fixed with 4 anchor screws.

Can be installed and placed everywhere whenever it is covered by radio frequency.

Ask for specific coverage study.

In case there is a lack of radio frequency coverage, it will be required an extra Master Pi-100 communication device.

Data access

Measures taken by sensors are presented trough DIGITPLAN website.

DIGITPLAN	C Q E
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Certifications

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None of our products contains lead.



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SECURDETECT · Technical specifications · April 2019





MASTER Pi-100

Product description

The Master Pi-100 is a communication gateway that gathers the data collected by the different sensors or Silometric[®] devices and transmit it to Internet. Once the information is on the cloud, it can be managed from the Digitplan[®] Platform.



Technical specifications

Capacity	No limitation of Silometric [®] devices.
Distance range	300 m without obstacles.
Protocols	IEEE 802.3, IEEE 802.11.
Power supply	5V – 3A.
Dimensions	9,2 x 6 x 3 cm (width x depth x height).
Communications	Wireless, radio. Frequency 433MHz, 868MHz, 905Mhz or 922MHz depending on the country.

Installation

Connect the device to a 5V and 3A power supply and screw the antenna.

Place the Master PI-100 in a centred position of the other silometric devices, where there is the best possible visibility between the MASTER Pi-100 and the Silometric[®].

Certifications



MCSystems declares that the Master HMI Pi-100 product complies with current regulations and standards.

MASTER Pi-100 · Technical specifications · March 2019





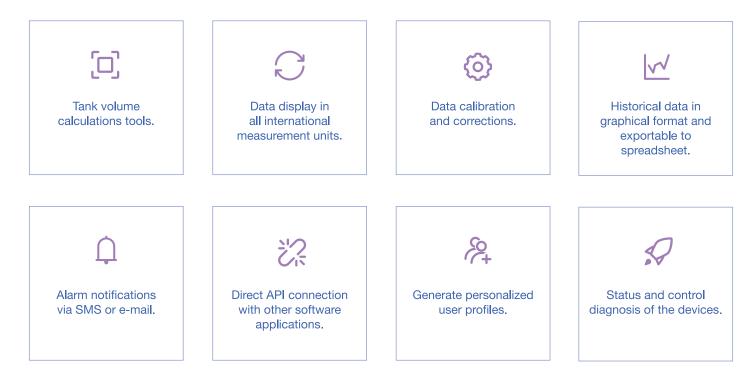
Digitplan, the application that monitors agricultural or industrial facilities in real time

User-oriented monitoring software, where user can control the status of your installation in real time, using data obtained from the various level sensors (Silometric or Fluidmetric) or temperature sensors (SecurDetect), through any electronic device connected to the Internet.

Features

- Multiplatform.
- Real-time status and inventory display.
- Consultation of historical data in graphic format, exportable to a spreadsheet (csv).
- Geo-location of the devices.
- Low level alarms configuration
- Possibility of integration with other programs.

Services

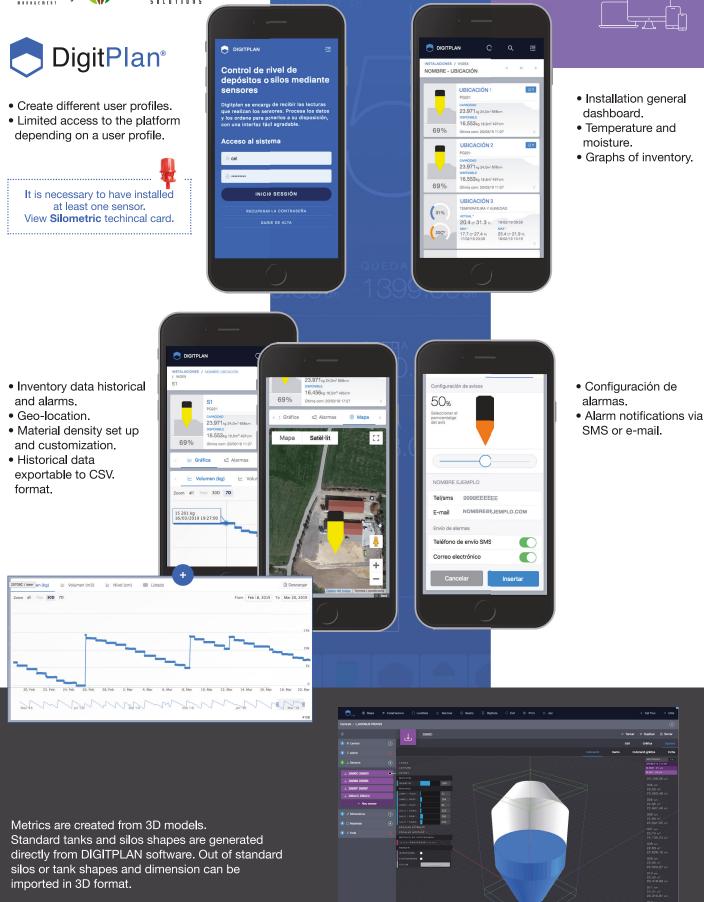


DIGITPLAN · March 2019



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MYSILO by SILOSMART



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