



## You have all what you need for a better life.

The enginko<sup>®</sup> sensor range can cover one multitude of needs, from agriculture to industry, come on building sectors to smart city applications and to offer, both to small groups of people and to large communities, parameters useful for making prevention predictions or choices and predictive maintenance in addition to correction of the most varied problems: from air quality to level of rivers and reservoirs, from energy consumption to meteorological information.

Developed to interface with the main systems of data management via LoRaWAN<sup>®</sup> protocol, are in able to offer a wide adaptability to situations too extreme thanks to their characteristics: the size contained, the robust and resistant construction materials, the long-lasting

batteries, long distances covered by data transmission. The range also includes actuators, signals, verification and data transmission for the control of industrial and home automation processes, water treatment, irrigation agricultural and similar applications.

So let them be homes, classrooms, churches or hospitals, rivers, dams, cultivated fields, entire valleys, sensors enginko<sup>®</sup> can really help you monitor, understand and choose to improve the quality of life of people, the productive economy and the surrounding environment.

# Sensors range



## Modbus to LoRaWAN® interface



MCF-LW06485



## Serial to LoRaWAN® interface



MCF-LW06232



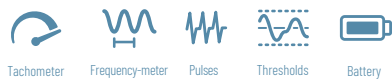
## LoRaWAN® vending machine supervisor



MCF-LW06VMC



## Counter/Tachometer to LoRaWAN® interface



MCF-LW06CNT



## 0-10V to LoRaWAN® 4 channel interface



MCF-LW06010



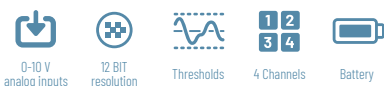
## 4-20mA to LoRaWAN® 4 channel interface



MCF-LW06424



## 0-10V to LoRaWAN® 4 channel interface battery powered



MCF-LW06010B



## 4-20mA to LoRaWAN® 4 channel interface battery powered



MCF-LW06424B





### Serial to LoRaWAN® interface with I/O

- 5 INPUTS
- 2 OUTPUTS
- up to 5 counters
- RS232
- MIFARE card reader

MCF-LW06K10



### LoRaWAN® energy meter plug with I/O

- Energy Meter
- Digital Inputs
- Digital Outputs
- Thresholds
- Battery
- Bluetooth
- ON/OFF

MCF-LW22PLG



### LoRaWAN® mono-phase metering with I/O

- Energy Meter
- INPUTS
- OUTPUTS
- Thresholds

MCF-LW12MET



### LoRaWAN® wireless actuator

- Digital Inputs
- Digital Outputs
- Counter

MCF-LW1310



### LoRaWAN® IP67 outdoor environmental sensor

- Temperature
- Humidity
- Pressure
- IP67

MCF-LW12TERWP



### LoRaWAN® indoor environmental sensor PM1 · PM2,5 · PM10

- Temperature
- Humidity
- Pressure
- PM 1.0-2.5-10

MCF-LW12TERPM



### LoRaWAN® indoor environmental sensor VOC/Lux

- Temperature
- Humidity
- Pressure
- Air Quality
- Light

MCF-LW12VOC



### LoRaWAN® indoor environmental sensor VOC/Lux/CO2

- Temperature
- Humidity
- Pressure
- Air Quality
- Light
- CO2
- Thresholds

MCF-LW12CO2E



# Sensors range



## LoRaWAN® multi I/O module



MCF-LW13M10



## LoRaWAN® multi-application level sensor



EGK-LW20L00



## LoRaWAN® waste level sensor for bins and containers



EGK-LW20W00



## LoRaWAN® weather station



MCF-LWWS00/01



## LoRaWAN® basic weather station



MCF-LWWS02/03



## LoRaWAN® the join protocol.

LoRaWAN® stands for Long Range Wide Area Network, and is a long-range, long-range data transmission protocol based on LoRa technology. The latter is a frequency modulation technique that derives from Chirp Spread Spectrum (CSS) technology.

Considered an LP-WAN (Low Power Wide Area Network), it guarantees transmission covering 10-15 km in rural areas and 3-5 km in urban areas, with reduced energy requirements, in maximum safety.

enginko® has always used this protocol as it is able to satisfy every need in the transmission of information to and from device in the IoT field, even in complex environmental conditions.

