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Company and Activity

Company mission: finding reliable, quality, cutting-edge, well-industrialised solutions for simplifying the installer's job and offering ergonomic, intuitive products for the end user through an R&D staff of specialist engineers and a well-equipped, competent production department.

Our electronic designs are potentially addressed to any application or sector, with a consolidated experience in the IoT, Hospitality, Vending and / or Virtual Monetics.

Design and production of IoT devices (battery operated, ultra low power and powerless with LoRaWAN™, LPWAN, LTE, NB-IoT technology).

Development of software applications and cloud systems.
Design and production of payment systems for private and bank circuits using contactless, Bluetooth, NFC and QR CODE technologies. Production of electronic radio frequency equipment.
Design, study, research and development of software, products and devices, also for third parties.

Application Fields ---

Smart Cities

Waste, parking, public light management, air pollution, flooding control

Citizen Services

Public transportation paths, objects, animals, people traceability

Smart Agriculture

Irrigation management for controlling humidity, growth and chemical use optimization, ice prevention

Industry

Air quality management, energy management, data logging, process supervisory

Smart Building

Air quality, pollution, PM, CO2, power consumption, light, heat, cool, ... remote activations

Vending

Data collection, consumptions, loyalty, alarms, programming



MCF-LW12TER

LoRaWAN™ indoor environmental sensor

This device reads temperature, humidity and pressure and sends collected data over the LoRaWAN™ network. Ideally suited for a wide range of applications such as building automation, condition monitoring, predictive maintenance, security, healthcare and many more use cases.



MCF-LW12VOC

LoRaWAN™ indoor environmental sensor with VOC and LUX

This device reads temperature, humidity, pressure, light intensity and air quality (expressed as IAQ or bVOC value) and sends collected data over the LoRaWAN™ network. Ideally suited for a wide range of applications such as building automation, condition monitoring, predictive maintenance, security, healthcare and many more use cases.





MCF-LW12C02

LoRaWAN™ indoor environmental sensor with VOC, LUX and CO2

This device reads temperature, humidity, pressure, light intensity, air quality (expressed as IAQ or bVOC value) and CO2 and sends collected data over the LoRaWAN™ network. Ideally suited for a wide range of applications such as building automation, condition monitoring, predictive maintenance, security, healthcare and many more use cases.





MCF-LW12TERWP

LoRaWAN™ outdoor environmental sensor

This IP67 battery powered sensor reads temperature, humidity and pressure and sends collected data over the LoRaWAN™ network. Ideally suited for a wide range of applications such as weather stations, urban monitoring, air quality, industrial, environmental or farming projects.



MCF-LW12TERPM

LoRaWAN™ outdoor PM and environmental sensor

This solar powered sensor reads temperature, humidity, pressure and PM (PM1, PM2.5, PM10) and sends collected data over the LoRaWAN™ network. Ideally suited for a wide range of applications such as weather stations, urban monitoring, air quality, industrial, environmental or farming projects.





MCF-LWWS00 MCF-LWWS01

mcf88 LoRaWAN™ Weather Station

mcf88 integrates a LoRaWAN™ communication system in a Davis Instruments Vantage Pro2 Weather Station. The station, rugged and flexible, is equipped with a wide range of sensors and it offers reliable weather data under the most demanding circumstances and gives these variables:

- *Inside and Outside Temperature and Relative Humidity*
- Barometric Pressure
- Rainfall
- Dew Point
- Wind Speed and Direction sensors (detachable)
- Solar radiation
- PM1, PM2.5, PM10 (only available in MCF-LWWS01)



MCF-LW06DAVK

Davis to LoRaWAN™ interface Kit

The kit MCF-LW06DAVK can be installed in an existing Davis Vantage Pro2 station. This allows to upgrade the station to a LoRaWAN™ connectivity. Further, the MCF-LW06DAVKP kit adds a PM measurement system to the existing station. These kits include all necessary hardware to be installed in the station.





MCF-LW13IO

LoRaWAN™ wireless actuator

This device can transmit the status of its input and control the output through the LoRaWAN™ network. Can be used for industrial process control and home automation, water treatment, agriculture irrigation and similar applications.



MCF-LW13MIO

LoRaWAN™ Multi I/O module

This device transmits the state of its 16 inputs and controls 8 outputs through the LoRaWAN™ network. All these inputs and outputs are galvanically isolated. It can be used for industrial process control, home automation, water treatment, agriculture irrigation and similar applications.

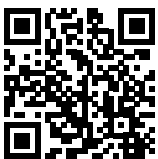




MCF-LW12PLG

LoRaWAN™ Energy Meter plug with On/Off

This compact meter can be used for monitoring the power consumption of the load, which can remotely be switched on/off. Equipped with a rechargeable battery for mains outage detection.

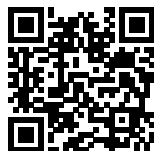


MCF-LW12MET

LoRaWAN™ Mono-Phase Energy Metering with I/O

This compact metering can be used for monitoring and checking the power of electronic devices, and can remotely switch devices on/off and read the state of a digital input.





MCF-LW06232

Serial to LoRaWAN™ interface

This interface can be connected via RS232 serial port to send and receive data through the LoRaWAN™ platform. The device has a proprietary mcf88 protocol.



MCF-LW06485

RS485 to LoRaWAN™ interface

This interface can be interfaced to any Modbus device to read and write any register of the connected device through the LoRaWAN™ platform. Configuration is simply made using a configuration file uploaded to the interface.





MCF-LW06KIO

Serial to LoRaWAN™ interface with Input/Output capability

This interface can be connected via RS232 serial port to send and receive data through the LoRaWAN™ platform. The device has a serial proprietary mcf88 protocol. The interface has five opto-isolated inputs (4 working with low voltage, one working at 230VAC) and 2 relay outputs.



MCF-LW06420

4-20mA/0-10V to LoRaWAN™ interface

This interface has two 4-20mA and two 0-10V input channels. All these inputs are opto-isolated and are useful to connect any kind of analog sensor and to forward measurements to the LoRaWAN™ platform.





MCF-LW06010

4 channels 0-10V to LoRaWAN™ interface

This interface has four 0-10V opto-isolated input channels, useful to connect any kind of analog sensor and to forward measurements to the LoRaWAN™ platform.



MCF-LW06424

4 channel 4-20mA to LoRaWAN™ interface

This interface has four 4-20mA opto-isolated input channels, useful to connect any kind of analog sensor and to forward measurements to the LoRaWAN™ platform.





MCF-LW06VMC

LoRaWAN™ Vending Machine Supervisor

This device can remotely acquire the accounting data, as EVADTS file, from any vending machine. It can be connected by DDCMP or DEX interface, as well as printer port for other devices. This device can send alarms or triggered events to the cloud platform and manage price changes.



MCF-MARTE

Vending machine interface Marte

MARTE is a universal interface that can be installed in any vending machine, compatible with most of vending machines brands. It supports EXE, MDB and BDV protocols to connect peripherals like coin acceptor, change giver, bill acceptor and cashless close loop payment systems. The interface also allows credit cards payments thru PoS.



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Designed by mcf88 in Italy.
Assembled in Italy.

mcf88.it