Meteo-SMacs®

Multi Sensors Station (Temp-Hum-Bar-Wind-Rain)

CONTROL OF THE METEO SCENARIO

The climatic conditions and / or weather can disrupt significantly the traffic flow performance.
The significant reduction of average speeds causes by the wet, reduces the traffic flow capacity of the roads and resulting the increase in travel time, other conditions of heavy rain or strong winds reduce significantly the safety conditions of the roads. It requires that the institutions need to act promptly to inform users of the road, civil protection etc. . of the possible danger.
The main goal becomes to contain as much as possible the limitation of mobility and road safety, giving a high priority to the detection in real-time of the meteorological parameters.

BENEFITS

- Knowing precisely the weather conditions allows you to take action before and efficiently.
- Automatic alert due to the changing weather conditions brings efficiency and organization of resources.
- Centralized control provides the manager with all the necessary data to best decide which solutions to adopt.
- Innovative technologies for the detection of the atmospheric conditions and 24 hours a day connection to SMacs® Platform.

DETECTION OF WEATHER CONDITIONS AND MEASUREMENTS ACCURACY

- Temperature: -50 ÷ +60°C (+/- 0,2°C)
- Humidity: 0 ÷ 100% (+/- 2%)
- Atmospheric Pressure 300 ÷ 1200 h Pa (+/- 0,5 h Pa)
- Type of precipitation: rain/snow
- Intensity and Quantity of precipitation: resolution 0,01 mm measure drops from 0,3÷5 mm
- Direction of the wind: 0÷360° (+/- 3°)
- Speed of the wind: 0÷75 m/sec (+/- 0,3m/sec o 3%)

REAL TIME SENDING OF EACH DETECTION

Through GPRS Modem.

REMOTE CONTROL AND ALERTING

Through the Platform SMacs® you can manage your data and be alerted in real time to the occurrence of any critical condition.

READY TO USE

Meteo-SMacs® allows you to have a professional Weather Station that controls the atmospheric conditions through the formula "Ready to Use".

The monitoring of these measurements is generally possible only through complex systems as they involve different technological components , heterogeneous among them.

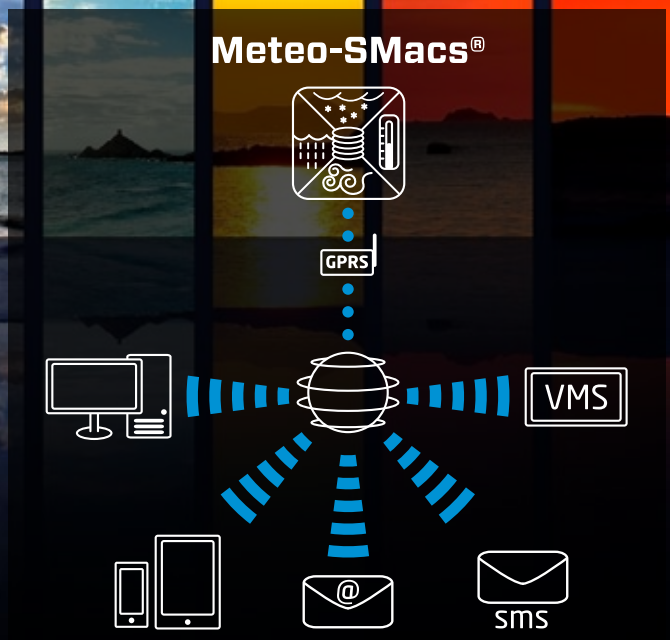
Our solutions are designed to be scalable, with central units of the highest level, but shared.

This allows you to get them very cheap and build a fully scalable system.

The goal is to spread these tools to a growing number of organizations, including also the small towns that need to monitor just a single spot.

The device installation on the road is very quick, and once installed does not require any additional configuration, the station is already ready to use, and the related data can be found out through the web, choosing who to notify in case of need.

Is available the option to provide the station with photovoltaic panel or with battery backup for supply through public lighting.



WEB ACCESS

Credentials to access to the web portal SMacs® with informations available for both the manager and for the ordinary citizen.

ALERT SYSTEM

Real Time alert at specific thresholds.

DATA STORAGE

Free access to the database to obtain the temporal trend of the monitored data for statistical purposes.

SYSTEM WIDENING

Possibility of integration with other modules and/or sensors maintaining the same platform

SYSTEM CONTENTS

- Compact Weather Station LUFFT WS600 with Manufacturer Test Certificate.
- Data acquisition station Weather-SMacs® designed and configured for your Weather Station.
- GPRS data modem to enable constant communication with the Control Center (SIM not included).
- Web SW Macs Weather to communicate and be alerted in real time on the Platform for Smart City SMacs ®.
- Wiring.

LA SEMAFORICA

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