

Collaboration between LSI LASTEM and Radarmeteo for meteorological monitoring in airports



In the ongoing effort to ensure maximum safety and efficiency at airports, the **collaboration** between **LSI LASTEM** and **Radarmeteo** represents a significant step towards **improving environmental** and **meteorological monitoring**. Through the integration between anemometric data and remote detection systems (e.g. radar and lightning detection network), this partnership aims to provide crucial data for optimal management of weather conditions at airports.

Description of the collaboration

LSI LASTEM, leader in the field of meteorological monitoring systems, has supplied a first series of **ultrasonic anemometers**, installed around the **Venice airport grounds**. Anemometers represent a fundamental pillar in the airport meteorological monitoring network. In addition, **compliance** with strict guidelines of the **World Meteorological Organization** (WMO) ensures the reliability and accuracy of the data collected by these sensors. The anemometers supplied by LSI LASTEM are able to provide accurate weather information,

offering a solid basis for the analysis conducted by Radarmeteo and allowing for more effective and safe management of airport operations.

Analysis and use of data for airports

The weather services provided by Radarmeteo are dedicated to assisting airport companies in managing operational activities in relation to meteorological phenomena, including **weather forecasting, lightning** monitoring and the **management of extreme climate events**. This information is essential to ensure the safety of airport operations and to enable a timely response to emergency situations.

Anemologic data are therefore fundamental for Radarmeteo's activity, as they allow a real-time and in-depth understanding of meteorological conditions at airports. Through the use of this data, Radarmeteo is able to carry out detailed analyses and provide **accurate forecasts**.

Benefits for airports and operational safety

The implementation of advanced monitoring systems allows airports to continuously monitor weather conditions and set **operational thresholds** for more efficient and safe management of airport activities on the ground. In fact, in the event that the value of a specific atmospheric parameter (e.g. wind) exceeds one of the pre-established thresholds, an **automatic alert** is immediately transmitted to the airport, thus allowing a prompt reaction and the adoption of the **necessary measures** to ensure the safety of airport operations.

Future installations and implementations

In addition to Venice airport, similar collaborations are planned at other major airports, including **Valerio Catullo in Verona** and **Brescia-Montichiari**.

Conclusions

The **collaboration** between LSI LASTEM and Radarmeteo represents an important step forward in the field of **meteorological monitoring in airports**. Through the implementation of advanced systems and the detailed analysis of environmental data, the aim is to ensure maximum safety and efficiency in airport operations.