

Rotronic Solutions by Wind and Weather

LSI-Lastem is an Italian company that can look back on a history of more than 40 years in the area of environmental measurement technology.



The company was formed following a merger of the LSI company, which had been making measurement instruments for determining temperature, relative humidity and airspeed since 1972, and Lastem, which specialized in the production of meteorological systems. Right from the start of its company history, LSI-Lastem set itself apart from the competition with innovative, trail-blazing solutions. As early as the nineties, the first multi-meters came on the market, capable of controlling a large number of sensors for a variety of measurements. This concept has recently been enhanced with complex multi-point systems that allow simultaneous measurement of different parameters at different points in the surroundings.

Solutions by LSI-Lastem are used in the following areas:

- Indoor
- Monitoring of pollution levels and the environment
- many meteorological applications (weather stations)

For many years, LSI-Lastem has relied on Rotronic's vast store of knowledge, and uses the outdoor HC2-CP03 cable probes in its weather stations. These synoptic weather stations comprise a large number of different sensors, which are integrated using data-standardization software solutions. The specified Rotronic probes are used to measure basic data, such as temperature and relative humidity, which are recorded by all weather stations.

Although Rotronic offers a very wide range of products, emphasis is also placed on flexibility; again and again, tailor-made solutions are worked out for specific customer requirements. In this case, cable length, power supply and outputs were designed to fit in one and the same housing for extreme ease of use.

The highest weather station in the world on Mount Everest

By choosing Rotronic solutions, LSI-Lastem were able to assure not only optimum dimensions, but also a high level of performance. As engineer Mr. Federico Pasquini, Chief Operating Officer at LSI-Lastem, explains, “The Rotronic probes have completely fulfilled our expectations, because they overcome certain limitations on the measurement of relative humidity in higher regions, even in difficult situations, and this is hard to achieve with other solutions.” Extreme situations are the specialty of LSI-Lastem. The company implemented the highest weather station in the world on the southern peak of Mount Everest at a height of 8,000 metres. This station contains three Rotronic sensors, proving how perfectly the highly developed, reliable technologies by two partners can complement each other.



HC2-CP03 Probes

The cable probes for meteorology and outdoor applications are equipped with a high-speed sensor, a new filter technology that significantly improves protection of the sensor against the formation of bio-film, and an increased input voltage range for battery-operated systems.



“The Rotronic probes provide a level of performance that is hard to achieve with other solutions.”

Federico Pasquini
LSI-Lastem, Italy