



Do you know when  
there is a risk of  
ice-creation on the road?

Would you like to know it?



## Meteorology and Anti Icing Systems



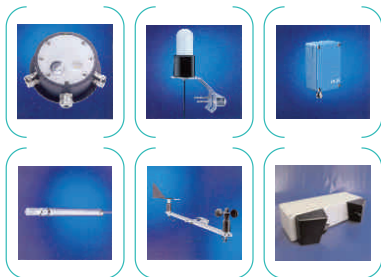
If, as we think, you would like to know it, you can count on us.

SICO applies the most modern technologies to its Meteorological Detection Systems and Automated Ice-Melting Sprinkler Systems and has developed its own procedures both in design and on-site installations.

Knowing about the needs in this field has made us being cautious when providing reliable systems, that include different procedures because they show control patterns, which have been developed together with specialized departments of some universities.

SICO, representative of the German company LUFFT, leader in meteorological equipments, provides reliable measure and control systems. Based in the experience of having done installations in cities with extremely harsh climates, such as Moscow, New York for example, and in Spain in Avila, Burgos, Cantabria, Huesca, Teruel, etc. in spots as emblematic as Puerto del Escudo in Cantabria, Puerto de Carrales in Burgos, Puerto de la Paramera in Avila. SICO has also collaborated in the works for cut and cover the M-30 ring of Madrid and in Thermal Controls in some viaducts for the Spanish HVT AVE, etc.

Lufft



Looking forward to continuing providing appropriate solutions to this market, SICO introduces the new Intelligent Road Sensor IRS31, which can distinguish in between ten different types of ice-melting products in order to calculate the freezing point of the road as well as the temperature on surface, the temperature under the road, the amount of ice-melting product dissolved, the state of the road specifying if its wet or damped and equipped with a radar capable to know if the surface of the road has water, frost or ice, as well as its thickness.

Knowing the real state of the road is a must in order to choose the most appropriate actuations on roads in the wintertime. Doing ice-melting treatments on roads just because the temperature is below zero is not justified because some other factors as moisture on the road, are needed for the risk of ice creation.

This is the reason why, the measuring of all the variables is becoming more important every day, because a more exhaustive control of the ice-melting products is needed due to its cost and the harm that can produce its indiscriminate use to the environment.

The fact of requesting Calibration Certificates for every sensor in every variable, issued by sufficiently accredited entities, might mean the right management of ice-melting products, as well as a correct study of the introduction of the different systems of both Measure and Control.

SICO's Technical Department remains at your disposal in order to solve the doubts that you may have as well as to study the most suitable solutions to your needs.



Partners:



**SICO - Sistemas De Control CV, S.L.**

**Valencia:**  
Telf: + (34) 96-395 38 15  
Fax: + (34) 96-395 34 29

**Madrid:**  
Telf: + (34) 91-331 05 80  
Fax: + (34) 91-332 48 64

[www.sicocv.es](http://www.sicocv.es) • [sico@sicocv.es](mailto:sico@sicocv.es)