

THE ICE LOAD SURVEILLANCE SENSOR ICEMONITOR™



Ice build-up on bridges and power lines is a potential security and functional hazard.

The IceMonitor™ can provide data to make a proper decision if it's necessary to remove the ice and the best time to do so. With accurate information it's possible to save time and money through planned maintenance.

The IceMonitor™ can detect ice deposit growth on structures and can be used for ice load surveillance at power lines, masts and towers, ski-lifts, bridges and other constructions.

The IceMonitor™ is designed according to the ISO 12494 specification (Atmospheric icing of structures). The output signal from the IceMonitor™ is analogue and can be interfaced with any standard 4–20mA connection.

You can also choose to have a logger and communication unit as a part of the system.



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SPECIFICATIONS



GENERAL

Surface area of sensor:	0.05 m ²
Measuring range standard:	0–10 kg
Measuring range optional:	0–25 kg, 0–50 kg or 0–100 kg
Accuracy:	±50 g
Operating temperature range:	-40°C to 50°C

ELECTRICAL

Supply voltage electronics:	11–26V DC
Supply voltage heating:	15–30V DC
Supply current electronics:	< 0,1A
Supply current heating:	< 2A @24V DC
Output signal:	4–20 mA (current loop)
Permissible load resistance:	<500 ohm

DIMENSIONS

Overall height:	119 cm
Width:	14 cm
Weight:	8.2 kg

Combitech can offer logger functions and complete monitoring solutions for weather data.

ELECTROMAGNETIC COMPATIBILITY

The IceMonitor™ fulfils the EU EMC directives: EN 50081, EN 50082.



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