

# IceLoad Sensor MEASURES ICE LOADS UP TO 20 KG



Reliably detect icing, proactively address risks and failures

Ice load is the weight of ice build-up on objects such as buildings, overhead power lines, wind turbines, and vegetation. In freezing rain and hoarfrost, ice load can reach problematic and damaging levels, especially when rising winds elevate the wind load as well. Ice load monitoring provides early warning of impending icing and enhances energy supply security. The IceLoad Sensor leverages the gravimetric measurement principle, just like our worldwide known rain[e] weighing precipitation sensor. Its ice load measurement probe can calculate a maximum load of up to 20 kg.

- ISO 12494 standardized, meeting the European standard for accurate measurement of ice load
- Maximum accuracy and a wide measurement range in a compact, low-weight unit
- Full year-round functionality in an environmentally friendly package free from antifreeze

## APPLICATIONS

- Transmission towers
- Air line cable cars
- High-voltage power lines
- Overhead lines in rail traffic
- Public buildings and infrastructure
- Wind turbines in cold climate areas

Professional Line	IceLoad Sensor
Id-No.	00.15300.000030
Measuring range	0...20 kg
Accuracy	2 % at 1 kg ice load, corresponds to 20 g @ 1 kg
Resolution	1 g
Output	Modbus RTU, RS-485
Environmental conditions	-40...+70 °C (heated)
Power supply	24 VDC, 3.34 A (80 W)
Measuring principle	Gravimetric (DMS)
Dimensions	714 x 180 mm (H x D)
Housing	Seawater resistant aluminum
Weight	3.3 kg
Standards	ISO 12494
Included in delivery	32.15300.001000 Mast bracket
Accessories (order separately)	32.05108.301500 Connection cable (purple); length = 15 m

As of: 20.02.2025