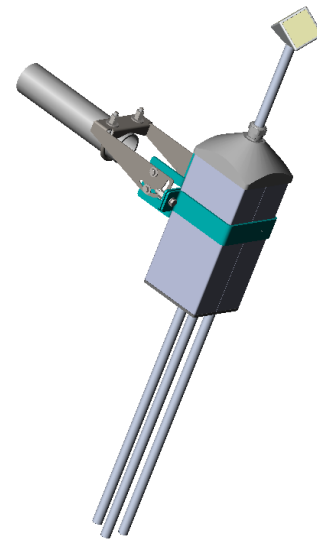


IDS-30

Icing measurement system



During the winter season in higher latitude regions a lot of our infrastructure is affected by icing. Power generation by wind turbines may be impaired under icy condition, leading to reduced power output and longer maintenance times. Reliable ice detection systems help reduce associated costs and down times.

The IDS-30c can measure ice layers from 0.2 mm to 2 mm. By measuring the complex impedance in the vicinity of the sensor, the IDS-30c is able to distinguish between water and ice and capable to record ice accretion rates.

The IDS-30r can measure ice layers from 1 mm to 40 mm. By measuring the complex impedance in the vicinity of the sensor, the IDS-30r is able to distinguish between water and ice and capable to record the total ice load.

The IDS-30cr provides a sensor-combination that can measure ice layers from 0.2 mm to 40 mm. By measuring the complex impedance in the vicinity of the sensor, the IDS-30cr is able to distinguish between water and ice and capable to record ice accretion rates and total ice load.

Versions

Art	Version
21373	IDS-30c for ice layers 0.2 to 2 mm (Cube 5 sensor)
21374	IDS-30r for ice layers 1 to 40 mm (Rod-80 sensor)
21372	IDS-30cr for ice layers 0.2 to 40 mm (Cube 5 and Rod-80 sensors)

Scope of delivery

Qty	Name
1	IDS-30 in the required version
1	Mounting kit
1	Sensor cable
1	Manual and Commander Software on USB stick

Accessories

Art	Accessories
20557	Heating transformer 230/24V, 160VA, IP00
20519	IDS-20 Main-cable 10 m
21150	USB to RS485 isolated converter cable
22524	Universal extension box for cable extension

Specifications

IDS-sensors		
Sensor type	Cube sensor 5	Rod sensor 80
Measuring range ice thickness	0.2...2 mm	1...40 mm

IDS-controller	
Power supply	Sensors 10...28 VDC Heating 24 VDC integrated overvoltage protection
Power consumption	Active measurement 50 mA at 12 VDC Heating max. 5A at 24 VDC
Output	RS-485 (Modbus) SDI-12 3x relay output, max. 0.8 A each
Operating temperature	-40...60 °C
Protection rating	IP 66
Lightning protection	Integrated Lightning Protection against indirect Lightning; discharge capacity 0,6 kW Ppp
Size L x W x H	1055 x 133 x 133 mm
Weight	3.5 kg