



Mod. **DIS**

Radar disdrometer

Precipitation type and intensity detection

Highlighted specs

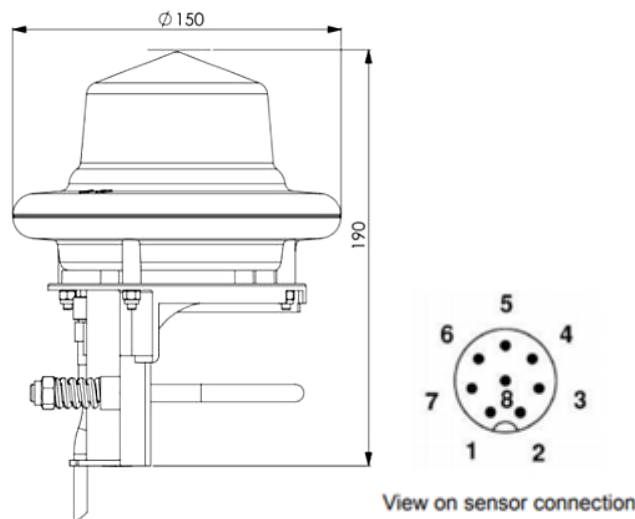
- Doppler sensor for rain detection
- Limited dimensions and weight
- Made of plastic and resin for extended temperature range
- Fixing system for poles with a diameter of 60-76 mm
- According to **CE** norms

Professional electronic sensor of the family WSxxx based on **doppler radar technology (24Ghz)**, to determinate the **precipitation** (rain, snow, sleet, freezing rain, hail, drizzle, no precipitation, codes according to SYNOP 4677). The intensity of the rain/snow/hail and the relative quantity, are determined from fall speed and from the size of the drops. The type of precipitation is instead determined by the different speed of fall. The sensor has an electrical output in digital **RS485** with Modbus protocol. This sensor is suitable for applications in various fields of environmental monitoring, and is particularly suitable for **aeronautical applications** in meteorology and **road environmental monitoring**. Easy to install, no periodic calibration required and it's protected from overvoltage and corrosion. Suitable also in photovoltaic applications thanks to low energy consumption (standard <1 VA, with heating max 10VA).

Typical range	Precipitation intensity 0.01-200 mm/h, particle velocity 0.9...15.5 m/s
Range liquid precipitation	0,3 ÷ 5,0mm
Range solid precipitation	5,1 ÷ 30mm
Accuracy	±0.16mm or ±10% of the measured value for liquid precipitation
Ability to recognize	Rain, snow, sleet, freezing rain, hail, drizzle; No precipitation according to SYNOP 4677
Type of transducer	24GHz Doppler radar
Standard signal out	Digital RS485 Modbus
Working conditions	-40°C ÷ +60°C; 0 ÷ 100%Rh
Power supply and consumption	10÷28Vdc, (typ.<10W with heating)
Weight	0,7kg

Size and connections

Pin	Wire	DIS-C
1	White	Supply voltage ground
2	Brown	Positive supply voltage
3	Green	RS485_A (+)
4	Yellow	RS485_B (-)
5	Grey	-
6	Pink	-
7	Blue	Heating voltage ground
8	Red	Positive heating voltage



Order Code

Sensor	Rain identification sensor (Disdrometer) with 10m cable included	DIS	
Output	RS485 / Modbus		C
Accessories	CSxx – Cable xx* m length, sensor-datalogger – to be specified at order		xx

*specify the length for no standard measures

example of order code

DIS C 10