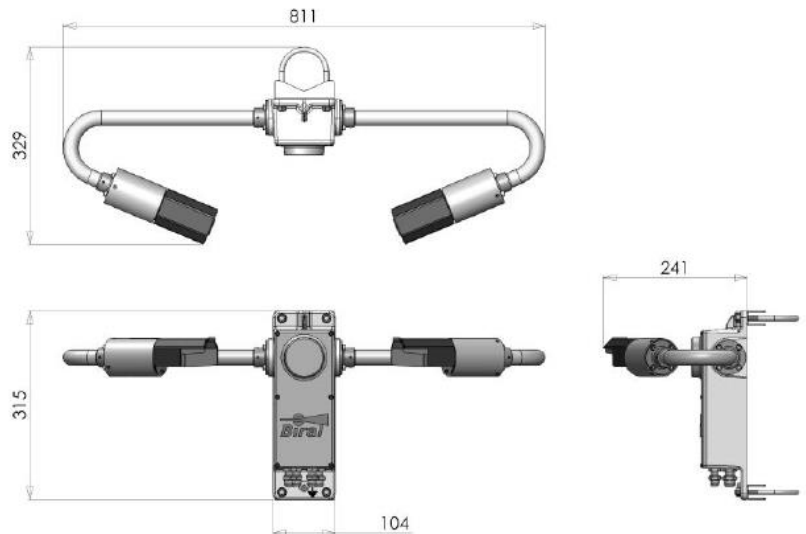# Mod. **VIS**

Visibility Sensor

Highlighted specs

- Accurate and reliable visibility sensor
- Limited dimensions and weight
- "Forward scattered" measuring system
- Compact and light design in aluminium
- WMO standards compliant
- Average Accuracy ± 10%
- Available with heating system in different levels
- According to CE norms

High-precision Biral professional sensor for measuring the visibility, range 10÷40.000m. The sensor is designed **according to WMO** (World Meteorological Organization) **standard** and is usually provided with **standard digital output RS485 or 4÷20mA on request.** This sensor is suitable for applications in various fields of environmental monitoring and is particularly indicated for the **AWOS weather stations in the aeronautical installations.** Easy to install, it requires no periodic calibration and is protected from overvoltage and corrosion. The sensor is designed for pole mounting with two adjustable collars.

Maximum range	10 ÷ 40.000mt (other ranges on request)
Resolution	10mt
Average Accuracy	± 10%
Response time	<10 s
Type of transducer	Forward scattered
Signal output	RS485 or 4÷20mA
Working conditions	-40°c ÷ +60°C (-50°c ÷ +60° heated option)
Protections	Polarity reverse and transient
Made of	Aluminium alloy, stainless steel screws
Power supply and consumption	10÷35Vdc, max 25W heated option
Weight	3,5 Kg

Size and connections

Pin	Wire	VIS-B	VIS-C
1	White	Out (+)	RS485 A
2	Green	Out (-)	RS485 B
3	Grey and orange	GND	GND
4	Red	10÷35Vdc	10÷35Vdc
5	Red [0.75 mm2]	Heating (+)	Heating (+)
6	Black [0.75mm2]	Heating (-)	Heating (-)

Dimensions in mm

Order Code

Sensor	Biral Visibility Sensor	**VIS**			
Output	4÷20mA (specify range in the order)		B		
	RS485 / Modbus (specify range in the order)		C		
Accessories	CS05 – Cable 5m sensor-datalogger			05	
	CS10 – Cable 10m sensor-datalogger			10	
	CSxx – Cable xx* m length, sensor-datalogger – to be specified at order			xx	
	RS232/485 digital interface for Nesa dataloggers			RS	
	Heating (can be activated only on the transducer or even on the support arms, specify in the order)				R

specify the length for no standard measures   *example of order code*   **VIS**   **B**   **10**   **R**