Mod. **GTA**

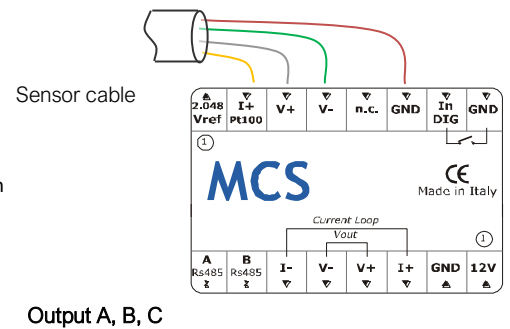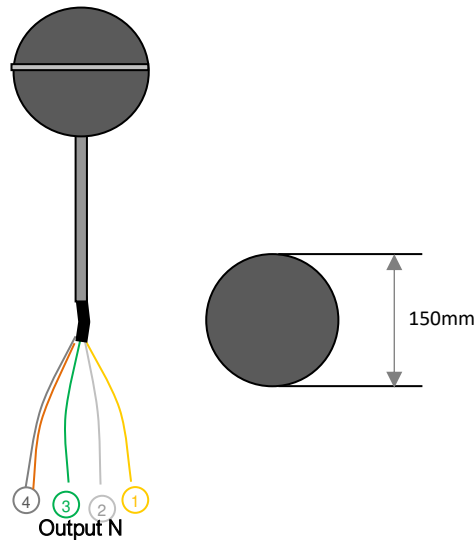## Black Globe Air Temperature sensor

Highlighted specs

- Accurate and reliable Temperature Sensor with black
  copper globe
- Compact size max 150mm
- Measure with Platinum resistance Pt100
- Compact and light design in copper
- WMO standards compliant
- Accuracy ≤ 0,1°C
- According to CE norms

Sensor for measuring the temperature induced by heat on a black body. Strong and compact, it's made of copper with a treatment to protect it against oxidant agents. Compliant with Annex.8 WMO standards for environmental monitoring applications. Easy to install and interface with any data logger **(4 wire measure with Pt100)**. The sensor is equipped with electrical protection and available with different signals output, normalized voltage or current 0÷1Vdc, 4÷20mA or **RS485/Modbus** (MCS option).

Typical range	-40 ÷ +60°C
Resolution	0.01°C
Accuracy	DIN 43760 1/3 DIN (±0.1°C @ 0°C)
Response time	< 10 s
Type of transducer	Platinum resistance 1/3 DIN
Shield	Copper sphere Ø 150mm
Signal output	RTD Pt100 4 wires (0÷2Vdc or 4÷ 20mA on request) Digital RS485 Modbus command line
Working conditions	-50 ÷ +80°C
Protections	Polarity reverse and transient
Made of	Painted copper, stainless steel screws
Power supply and consumption	10÷30Vdc, (typ.<0.01W)
Weight	400g

Size and connections

Wire	GTA-N
1 – Yellow	Pin 1 Pt100
2 – White	Pin 2 Pt100
3 – Green	Pin 3 Pt100
4 - Grey and orange	Pin 4 Pt100

Output N

150mm

Sensor cable

MCS
Made in Italy
Output A, B, C

Order Code

Sensor				
	Black Globe termometer	**GTA**		
Output	0÷2Vdc (MCS option)		A	
	4÷20mA (MCS option)		B	
	RS485 / Modbus (MCS option)		C	
	Natural		N	
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

*specify the length for no standard measures   *example of order code*   **GTA**   **C**   **10**