Mod. PTN

Snow Temperature Profiler
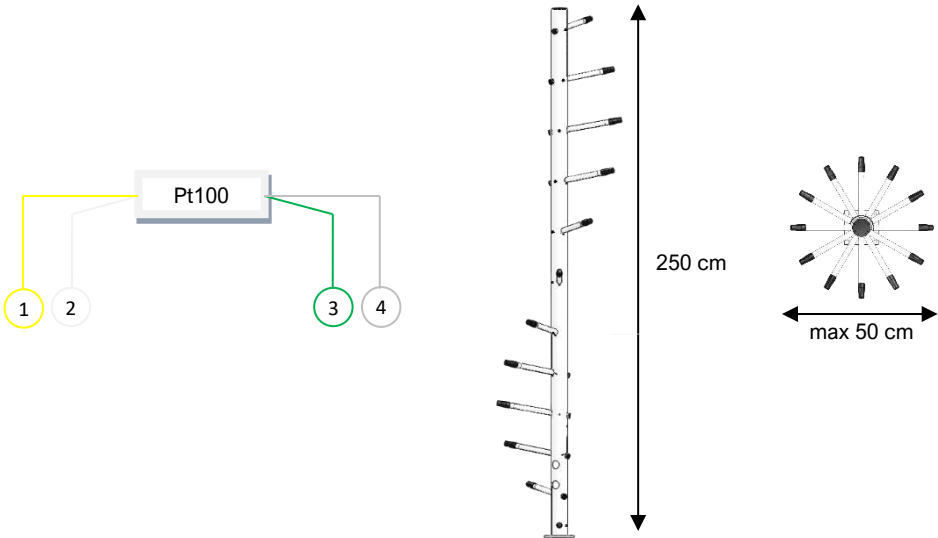
Highlighted specs

- 12 measuring points spread over 250cm height
- High accuracy temperature sensors PT100 1/5DIN 4-wires
- Interchangeable Teflon coated sensors with IP68 connector
- Adjustable support arms, radially spread
- Double hole for cable routing to and from the terminals
- Easy to install and light weighted
- WMO standards compliant
- Supplied with calibration report
- Maintenance and re-calibration not required
- According to CE norms

Temperature profiler for snow cover, with **white painted pole in anodized aluminium and 12 high accuracy temperature sensors (Pt100 1/5 DIN)** places on **adjustable and removable arms** up to 25cm away from the border pole, **to perceive small temperature differences between the various points**. The measurements start from **ground level up to a maximum of 250 cm height**. The arms, with the sensors mounted on their head, are spread radially around the pole, to reduce the physical interference among them and ensure that each sensor is fully immersed in the snow at its corresponding level. **Each arm is also installed with a specific angle** (about 10°) that limits the permanence of snow in its surface during melting. The distance between the **individual sensors** changes according to the height from the ground. All sensors are inserted in a special terminal in Teflon and are **easily interchangeable thanks to a special IP68 screwed connector**.

The sturdy structure, fixed to a base thanks to a special plate, is designed for cable routing. **All sensors have a 4-wire cable and can be connected to an acquisition system via terminals**.

Measurement points	12: Pt.1 at 0cm, Pts. 1÷6 spaced 20cm, Pts 6÷12 spaced 25cm
Typical range	-40 ÷ +60°C
Resolution	0.005°C
Accuracy	DIN 43760 **1/5 DIN** (±0.06°C @ 0°C) ACCREDIA certificate available
Response time	<6 s
Type of transducer	Platinum resistance 1/5 DIN
Signal output	12: Pt100 1/5DIN resistance (100Ω @ 0°C ±0.05 Ω); 10m cable
Working conditions	-60°c ÷ +80°C; 0 ÷ 100% Rh
Structure	Pole 250cm height with cap and fixing base 20x20cm, arms radially spread and inclined at 10° (from 2 to 12), adjustable distance from the pole border up to 25cm with screw connector, interchangeable sensors with IP68 connectors.
Made of	Aluminium alloy, white painted, stainless steel screws
Weight	<15Kg

Size and connections

Wire	PTN-N
1 yellow	Pin 1 Pt100
2 white	Pin 1 Pt100
3 green	Pin 2 Pt100
4 grey	Pin 2 Pt100

Pt100
1 2 3 4

250 cm

max 50 cm

Order Code

Sensor	Snow temperature profiler (12 measures point)	**PTN**	
Output	12x Pt100 1/5DIN (100Ω @ 0°C ±0.05 Ω) 10m cable included*		N

*specify the length for no standard measures   *example of order code*   **PTN**   **N**