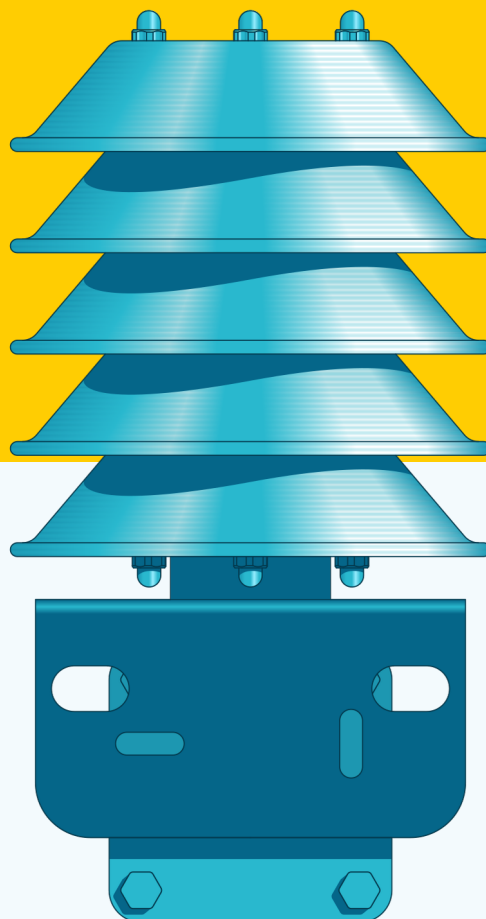


Thermo-Hygro-Barometer FD-THP100

High-precision thermo-hygro-barometer for professional environmental monitoring. Combines temperature, humidity, and pressure measurement in one compact device. Features radiation shielding, low power consumption, and seamless telemetry integration.



Features

- › Professional-grade radiation shield
- › High measurement accuracy
- › Resistant to extreme weather conditions, UV radiation, and corrosion
- › Low power consumption
- › Compact and lightweight design for easy field installation
- › Calibration available through accredited laboratories

Applications

- › Wind speed measurements on masts
- › Meteorology and climatology
- › Water sports, aviation, and skiing
- › Road weather protection systems
- › Agriculture



Temperature Performance Specifications

Range	-55 °C...+125 °C
Resolution	0.01 °C
Accuracy	0.1 °C

Humidity Performance Specifications

Range	0...100% RH
Resolution	0.01%
Accuracy	1%

Pressure Performance Specifications

Range	300...1250 hPa
Resolution	0.01 hPa
Absolute accuracy	300...1100 hPa (15...65°C) ±30 Pa
Relative accuracy	700...1100 hPa (15...55°C) ±6 Pa



Output Signal

Signal Type	RS485 MODBUS protocol
Connector (socket)	M12 male connector, 4-pin configuration
Connector (plug)	M12 female plug, straight, 4-pin configuration

Power Supply

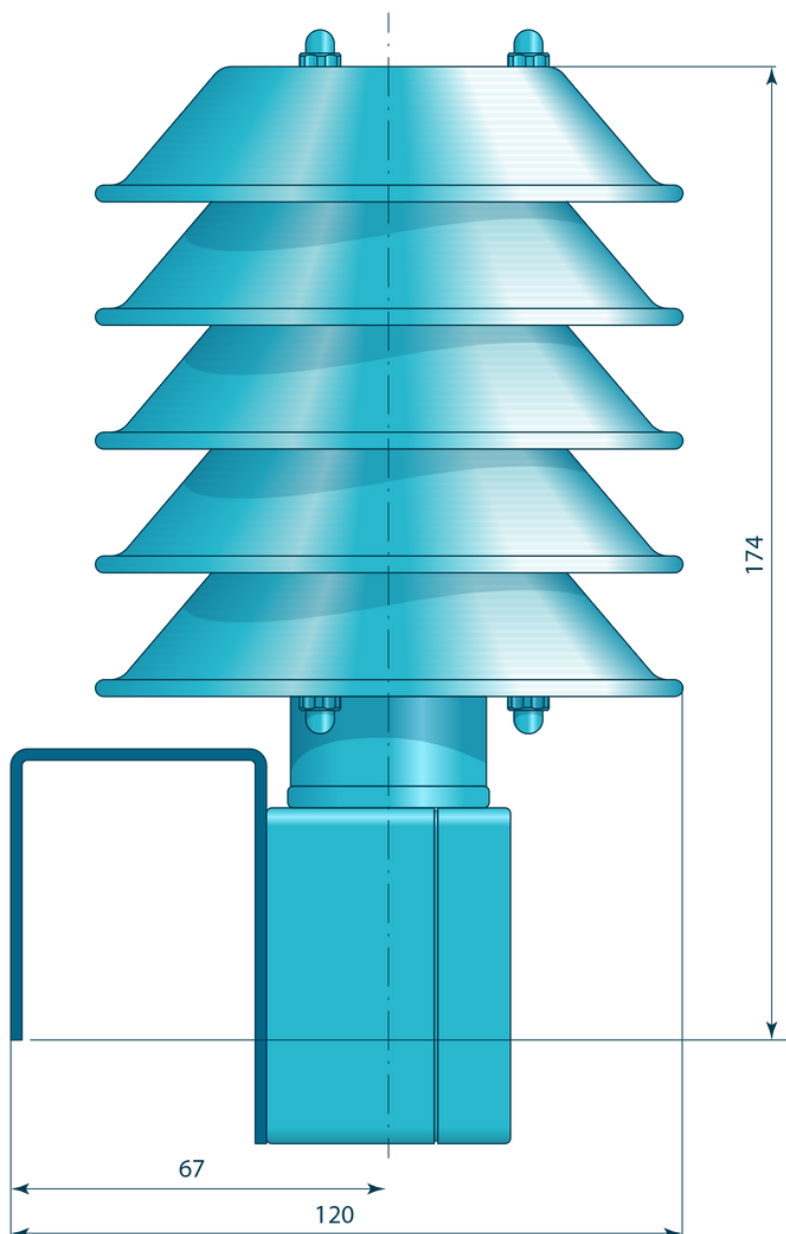
Supply voltage	6...30 VDC
Current consumption	16 mA @ 12 VDC
Surge protection	Transient Voltage Suppressor (TVS)
Short-circuit and overload protection	Polymeric Positive Temperature Coefficient fuses (PPTC)

Physical

Housing material	PC (Polycarbonate)
Ingress protection (IP)	IP65
Overall height	195 mm
Weight	205 g
Shipping weight	700 g
Shipping dimensions	288 x 110 x 157 [mm]



Dimensions



Dimensions

