



Automatic weather station

IMETEOLABS PWS 150

The IMETEOLABS PWS 150 weather station allows you to measure air temperature and relative humidity. Relative humidity is measured by means of a capacitive sensing element. For the measurement of air temperature a precise NTC measuring element is used.

To minimize the influence of external factors (e.g. solar radiation), the sensing elements are housed in a ventilated housing with radiation protection. The sensor is characterized by high measuring accuracy, high performance and high reliability.

Technical specifications

DC supply voltage, V	12
Current consumption at 12 V DC, not more, mA	30
Measuring range of air temperature, °C	from -50 to +60
Limits of permissible absolute error of air temperature measurements, °C	± 0,1
Measuring range of relative air humidity, %	from 1 to 100
Limits of permissible absolute error of relative air humidity measurements, %	± 3
Average MTBF, h	10000
Service life, years	8
Availability of interfaces	RS485 or RS232 (to be determined when ordering)
Mounting	on stainless steel mast for Ø 60 - 76 mm
Degree of protection	IP66
Case Material	Plastic
Overall dimensions:	
Diameter, mm	140
Length, mm	180
Weight, including mast mounting, excluding connecting cable, kg	0,8
Operating conditions:	
- Ambient air temperature, ° C	from -50 to + 60
- Relative humidity, %	from 0 to 100
- Atmospheric pressure, hPa	300 to 1200
Storage conditions:	
Ambient air temperature, ° C	from -50 to +70
Relative humidity, %	0 to 100