

Portable weather station

GS-PWS

LTE, Wi-Fi Communication



GSoc Portable Weather Station

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Communication	RS485 MODBUS RTU	
Temperature measurment resolution	0.01°C	41
Temperature measurement accuracy	compliant with Pt100-1/3B DIN (currently AA), i.e., typ. ±0.1°C over the entire measurement range	<u> </u>
Long-term temperature drift:	<0.03°C/year	
Humidity measurement resolution	0.1% RH	
Humidity measurement accuracy	typical 0.5% RH, max. 1.0% RH	
Long-term humidity drift:	<0.19% RH/year	
Atmospheric pressure measurement range	800-1200hPa	
Atmospheric pressure resolution	0.01hPa	
Atmospheric pressure accuracy	typ. 0.1hPa max. 0.2 hPa	
Wind speed measurement range	0-60 m/s	
Wind speed resolution	0.01 m/s	
Wind speed accuracy	typ. 0.1m/s	
Wind direction measurement	in the range of 0-360°	
Wind direction measurement resolution	1°	
Direction measurement accuracy	5°	
Measurement of suspended particulate matter below 1µm (PM1.0)	in the range of 0-1000 μg/m3	
PM1.0 measurement resolution	0.01 µg/m3	
PM1.0 measurement error	< 5%	
Measurement of suspended particulate matter below 2.5µm (PM2.5)	in the range of 0-1000 μg/m3	
PM2.5 measurement resolution	0.01 μg/m3	
PM2.5 measurement error	<5%	



Measurement of Airborne particulate matter	below 10μm (PM10) in the range of 0-1000 μg/m3	
PM10 measurement resolution	0.01 μg/m3	
PM10 measurement error	<5%	
Radiation housing	ABS	
Datalogger housing	Aluminum	
Operating temperature	-40°C to +70°C	
Battery operation	Continuous (measurement once per minute) up to 10 hours, cyclic mode once per hour up to 10 days	
Battery charging time	5V/2A charger with USB-C cable: approximately 8 hours	
Dimensions	Diameter: 15 cm, Height: 55 cm	
Weight	2kg	

COMMUNICATION

Network	Description
LTE	LTE CAT-1, optional LTE CAT-M or NB-IOT, protocols: http(s), MQTT(S), CoAP
Wi-Fi	Wi-Fi 2.4GHz, AP (Access Point) - application from the browser, STA (Station) after connecting to a Wi-Fi router, protocols: http(s), MQTT(S), CoAP

