# **Professional Handheld Weather Station**

A professional handheld station contains a data logger and a combined multiparameter weather probe. The station is equipped with a bright, readable OLEO display. The station is powered from Li-ion batteries charged through the station's USB-C port.



With a professional data logger included, the handheld station is suitable not only for short-period measurement but also for longer campaigns. In addition to SD-card and USB-C, the station also provides a 4G modem and Bluetooth interfaces

for transmitting the data as well as configuring the station. The station has a robust body that can be installed on top of MicroStep-MIS mobile meteorological masts or a standard camera tripod.

### **Wind speed**

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Range	0.01 m/s to 40 m/s
Accuracy	± 3 % to 40 m/s, ± 5 % to 60 m/s
Resolution	0.01
Starting threshold	0.01 m/s
Sampling Rate	1 Hz
Units	m/s, km/hr, mph, kts, ft/min

#### **Wind direction**

Range	0 - 360°	
Accuracy	± 3 % to 40 m/s, ± 5 % to 60 m/s	
Resolution	1°	
Starting threshold	0.05 m/s	
Sampling Rate	1 Hz	
Units	Degrees	



## **Temperature**

Range	-40 °C to +70 °C
Accuracy	± 0.3 °C @ 20 °C
Resolution	0.1
Sampling Rate	1 Hz
Units	°C, °F, °K

## **Humidity**

Range	0 - 100 %
Accuracy	± 2 % @ 20 °C (10 % - 90 %RH)
Resolution	1 %
Sampling Rate	1 Hz
Units	% Rh, g/m³

#### Pressure

Range	300 to 1100 hPa
Accuracy	± 0.5 hPa @ 25 °C
Resolution	0.1 hPa
Sampling Rate	1 Hz
Units	hPa, mbar, mmHg, inHg

# **Interfaces and storage**

USB	virtual serial port, mass storage
Bluetooth	version 5.2
Modem	built-in 4G module
Storage	micro SD card, internal non-volatile memory

#### 4G modem

Operating temperature range	–40 °C to +85 °C
	Operating temperature range:
<b>Environmental conditions</b>	−40 °C to +70 °C
	Operating humidity range: 0 to 100 $\%$

## **User interface**

	Status LEDs		Bluetooth
•	USB	•	Built-in OLED with keypad

# **Power options**

Battery	Li-ion accumulator with monitoring and USB charging
Backup battery for low drift RTC	

# **Environmental parameters**

Temperature	-40 – 70 °C
Humidity	0 – 100 % non-condensing
Protection	IP 67 (except sensors)







