

Meteo Compact Station

HDMCS -100



Member of GHM GROUP

THE FIRST INDEPENDENT ALL-IN-ONE SOLUTION

Wind Speed | Wind Direction | Temperature | Relative Humidity | Barometric Pressure | Rainfall

FREE CLOUD COMMUNICATION

Set up to use with the Delta OHM Cloud but also ready to be used with **practically any customized solution**

INDEPENDENT FROM LOCAL STRUCTURE

Self-supporting system complete with solar panel and back up battery. Anywhere where there is 4G coverage, the system will connect itself and start sending data

ACCURATE AND RELIABLE SYSTEM

During production all sensors are **individually calibrated** in our own ISO 17025 calibration center to assure **very high accuracy**

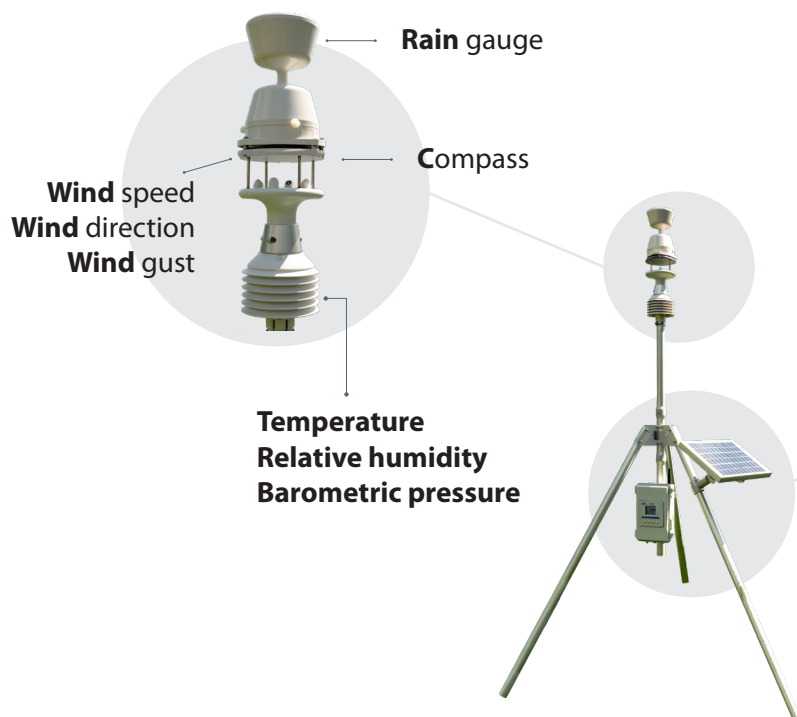
MADE TO OPERATE UNDER HEAVY CONDITIONS

Heavy duty mechanical design.
Ultrasonic sensor with no moving parts that need replacement

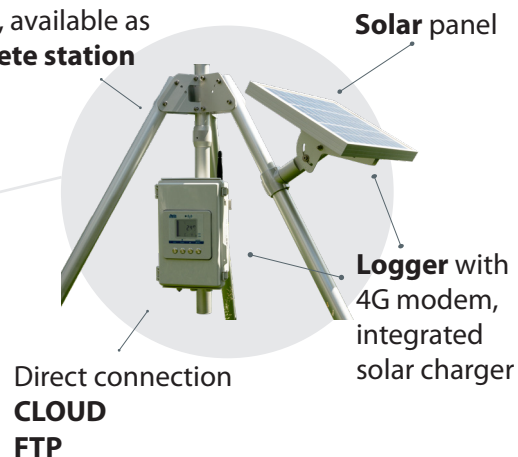


Quick & easy set-up and installation

1. Unpack the boxes.
2. Set up the tripod.
3. Plug-in the cables.
4. Insert your SIM card and receive the measurement on any smart device.



Stable mechanical design, available as complete station



Technical Specification

WIND SPEED

Sensor	Ultrasounds
Measuring range	0...50 m/s
Resolution	0.01 m/s
Accuracy	± 0.2 m/s or $\pm 2\%$, the greatest (0...35 m/s), $\pm 3\%$ (> 35 m/s)

WIND DIRECTION

Sensor	Ultrasounds
Measuring range	0...359.9°
Resolution	0.1°
Accuracy	$\pm 2^\circ$ RMSE from 1.0 m/s

COMPASS

Sensor	Magnetic
Measuring range	0...360°
Resolution	0.1°
Accuracy	$\pm 1^\circ$

AIR TEMPERATURE

Sensor	Pt100
Measuring range	-40...+60 °C
Resolution	0.1 °C
Accuracy	± 0.15 °C $\pm 0.1\%$ of measurement

RELATIVE HUMIDITY

Sensor	Capacitive
Measuring range	0...100% RH
Resolution	0.1%
Accuracy (@ T = 15...35 °C)	$\pm 1.5\%$ RH (0...90% RH), $\pm 2\%$ RH (remaining range)
Accuracy (@ T = -40...+60 °C)	$\pm (1.5 + 1.5\%$ of measurement)% RH

BAROMETRIC PRESSURE

Sensor	Piezoresistive
Measuring range	300...1100 hPa
Resolution	0.1 hPa
Accuracy	± 0.5 hPa @ 20 °C

* adjustable width and height

RAINFALL

Sensor	Tipping bucket
Resolution	0.2 mm
Accuracy	99% up to 120 mm/h
Maximum rainfall rate	2000 mm/h
Collector area	127 cm ²

LOGGER

Power Supply	20 W solar panel integrated charger
Backup Battery	12 V / 3.4 Ah lead-acid rechargeable battery
Wind speed averaging interval	Configurable from 1 s to 10 min
Cable connection	Equipped with Plug-&-Play connectors
Operating temperature	-40...+70 °C Minimum temperature for the rainfall sensor 1 °C
Protection degree	IP 65
Case	Plastic material. Metal parts: AISI 316
Measuring interval	1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
Logging interval	1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
Internal memory	Circular management or stop logging if memory is full. Number of samples: >240,000
Display	Custom LCD

DIMENSIONS



Delta OHM

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In order to ensure the quality of our instruments, we are constantly re-evaluating our products. Improvements can imply changes in specification; we advise you to always check our website for the newest version of our documentation.