

# Meteo Compact Station

## HDMCS -100

**Delta OHM**

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**

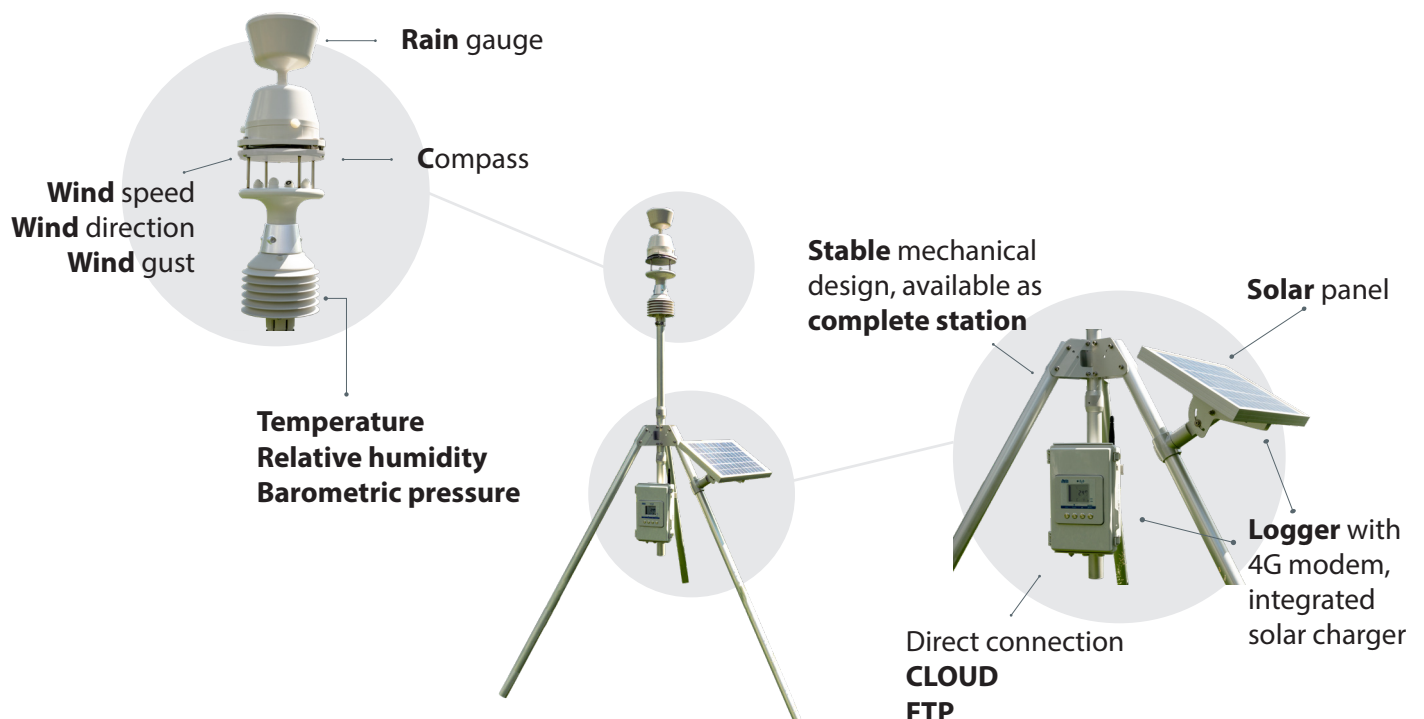
### MADE TO OPERATE UNDER HEAVY CONDITIONS

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.



## Technical Specification

### WIND SPEED

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

### WIND DIRECTION

Sensor	Ultrasounds
Measuring range	0...359.9°
Resolution	0.1°
Accuracy	± 2° RMSE from 1.0 m/s

### COMPASS

Sensor	Magnetic
Measuring range	0...360°
Resolution	0.1°
Accuracy	± 1°

### AIR TEMPERATURE

Sensor	Pt100
Measuring range	-40...+70 °C
Resolution	0.1 °C
Accuracy	± 0.15 °C ± 0.1% of measurement

### RELATIVE HUMIDITY

Sensor	Capacitive
Measuring range	0...100 %RH
Resolution	0.1%
Accuracy (@ T = 15...35 °C)	± 1.5% RH (0...90 %RH), ± 2 %RH (remaining range)
Accuracy (@ T = -40...+60 °C)	± (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 <sup>2</sup>

### 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



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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.

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**Delta OHM S.r.l.**

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