

# 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 **practical** any **customized** solution.

### INDEPENDENT FROM LOCAL STRUCTURE

**Self-supporting system** complete with solar panel and back up battery anywhere where there is GSM 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**.

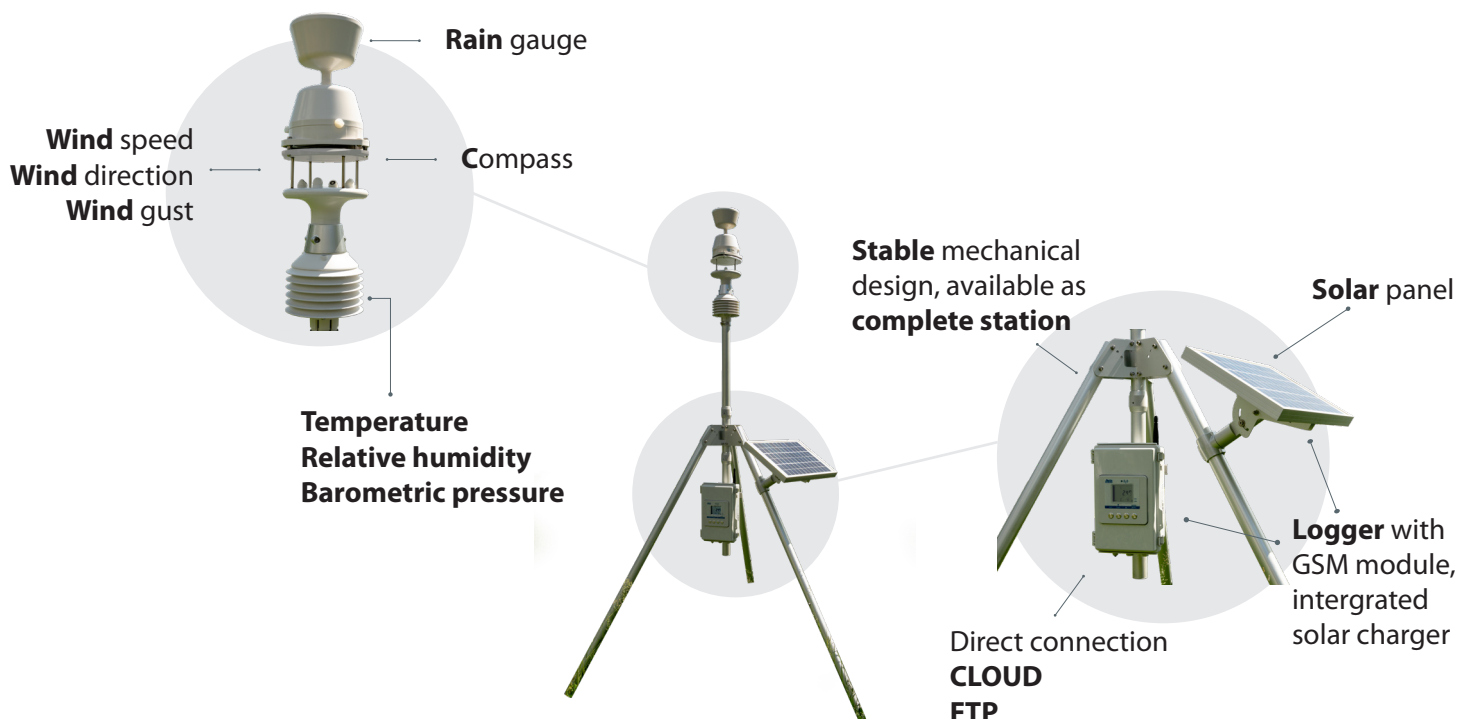
### MADE TO OPERATE UNDER HEAVY CONDITIONS

**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	$\pm 0.2$ 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	$\pm 0.15$ °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	$\pm 0.5$ hPa @ 20 °C

\* adjustable width and height

## RAINFALL

Sensor	Tipping bucket
Resolution	0.2 mm
Accuracy	better than 2% 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...+60 °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



In order to ensure the quality of our instruments, we may have to develop our products. We may make changes or corrections at any time. Check on our website to make sure your documentation is up to date.

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