

Meteo Compact Station

HDMCS -200

○ THE FIRST INDEPENDENT ALL-IN-ONE SOLUTION

Wind Speed | Wind Direction | Temperature | Relative Humidity | Barometric Pressure | Solar Radiation

○ 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 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.**

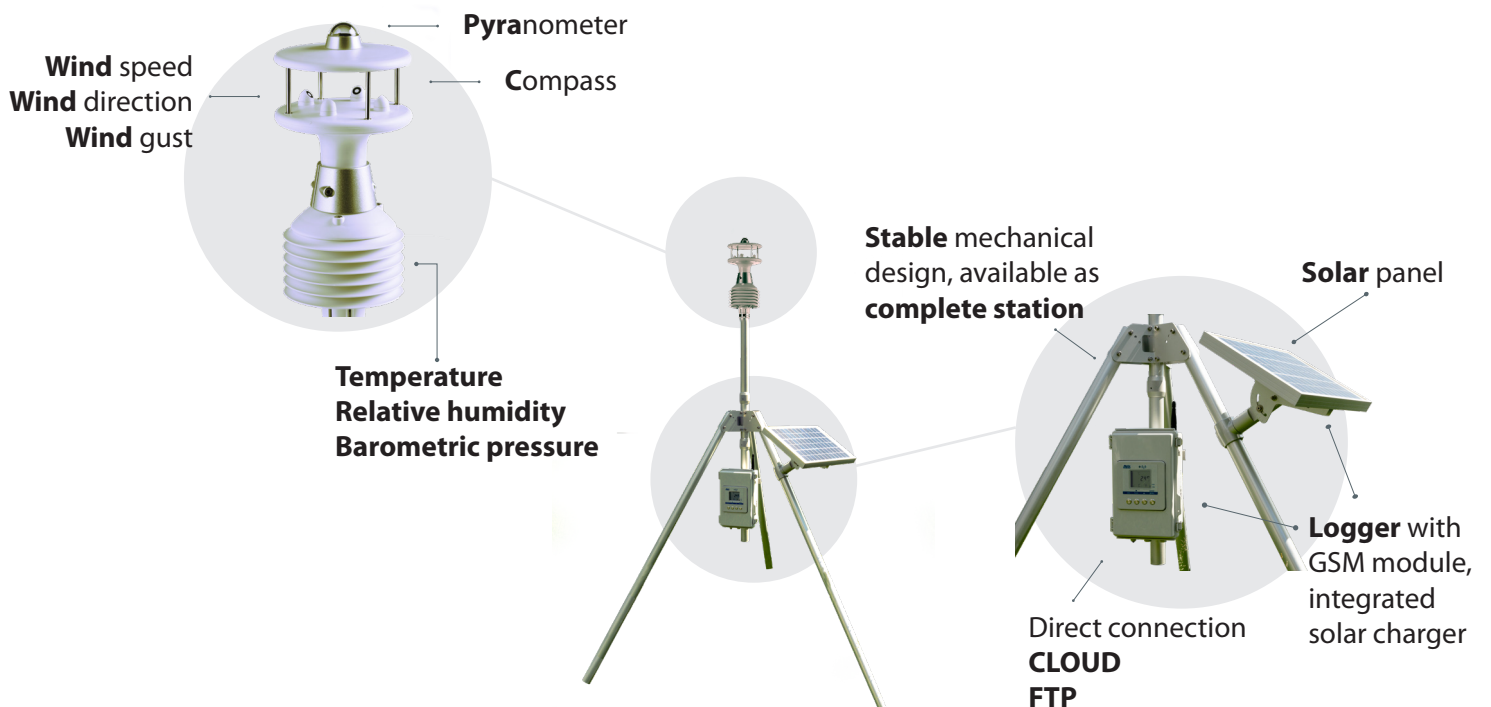
○ MADE TO OPERATE UNDER HEAVY CONDITIONS

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 | ± 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...+60 °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

SOLAR RADIATION

| | |
|-----------------|-----------------------------------|
| Sensor | Thermopile |
| Measuring range | 0...2000 W/m ² |
| Resolution | 1 W/m ² |
| Accuracy | 2 nd Class Pyranometer |

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



Delta OHM

Member of GHM GROUP

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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