MCF-LWWS00  
**mcf88 LoRaWAN™ Weather Station**

MCF-LWWS01  
**mcf88 LoRaWAN™ Weather Station with PM sensor**

mcf88 integrates a LoRaWAN™ communication system in a Davis Instruments Vantage Pro2 Weather Station. The station, rugged and flexible, is equipped with a wide range of sensors and it offers reliable weather data under the most demanding circumstances and gives these variables:

- Inside and Outside Temperature and Relative Humidity
- Barometric Pressure
- Rainfall
- Dew Point
- Wind Speed and Direction sensors (detachable)
- Solar radiation
- PM1, PM2.5, PM10 (only available in MCF-LWWS01)

**Characteristics:**

- Wind Direction 0° - 360° ±3°
- Temperature range -40°C + 65°C ±0.3°C
- Relative Humidity from 0% to 100% ±2%
- Atmospheric pressure from 880 to 1080 hPa ±1hPa
- Rain range 0 to 6553 mm ± 4%
- Solar Radiation 0 -1800W/mq ±5%
- PM sensor PM1, PM2.5, PM10 ±15%
- Data transmission Class A LoRaWAN™ stack @868MHz
- 5W Solar panel powered with 12AH battery, 6V
- Mounting Tripod with Lag Bolts

**Applications:**

- Smart Agriculture
- Industry
- Smart City
- Waste station control
Data visualization on mcf88 "Cloud8816wan" web Cloud platform:

<table>
<thead>
<tr>
<th>City</th>
<th>Amsterdam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Noord-Holland (Netherlands)</td>
</tr>
<tr>
<td>Time zone</td>
<td>(UTC+01:00) Amsterdam</td>
</tr>
<tr>
<td>Coordinates</td>
<td>52° 22' 53&quot; N 004° 52' 6&quot; E</td>
</tr>
<tr>
<td>Altitude</td>
<td>1.2 m</td>
</tr>
<tr>
<td>Height</td>
<td>12 m</td>
</tr>
<tr>
<td>Brand</td>
<td>Davis Instruments</td>
</tr>
<tr>
<td>Model</td>
<td>Vantage Pro2 Plus</td>
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</tbody>
</table>

![Map of Amsterdam](image_url)