

# Engineer Weather Station

These high quality sensors combined with high performance communication technology guarantee unrestricted availability of environmental parameters in addition to reliable and precise data. Lambrecht offers standardized environmental measurement stations for all meteorological applications.



**u[sonic] Ultrasonic Wind Sensor:** Measures wind speed and direction. Salt water resistant, smart heat technology, easy installation, maintenance free.



**Temperature/ Humidity/ Pressure Sensor:** Very high accuracy, protective shelter for sensors, optional ventilation for best accuracy.



**Precipitation Sensor:** All metal housing, precise tipping bucket system, reliable long term operation.



**Pyranometer:** Silicon pyranometer, easy alignment using the integrated circular level



**met[LOG] Data Logger:** Plug & Play, visual representation in web browser, alarm generation with hysteresis or window function; Alarm output via 4 digital outputs, 8 connectable warning channels.



**Mast System:** Modular mast system with sensor adapters and clamps for meteorological sensors.

## Uses

- Hydrology
- Building Technology
- Power Plants
- Highly Accurate Meteorology
- Educational

# Engineer Weather Station

## Ultrasonic wind sensor u[sonic]

Wind direction: Meas. range: 0...359.9° • Accuracy: < 2° (> 1 m/s ) RMSE

Wind speed: Meas. range: 0...75 m/s • Accuracy: ± 0.2 m/s RMSE  
(v < 10 m/s); ± 2 % RMSE (10 m/s < v < 65 m/s)

Precipitation sensor ECO, 2 cm3 Meas. range: 0...8 mm/min • Resolu on: 0.1 mm  
Accuracy: ± 2 % with intensity correction

## Temp./humidity/air pressure sensor THP

Temperature: Meas. range: -40...+70 °C Accuracy: ± 0.3 °C at (v > 2 m/s) •  
± 0.4 °C (10...40 °C) • ± 0.8 °C (-10...70 °C)

Relative humidity Meas. range: 0...100 % r. h. Accuracy: ± 3 % (10...90 %) r. h. •  
± 4 % (0...100 %) r. h.

Barometric pressure Meas. range: 500...1100 hPa Accuracy: ± 2 hPa (-30...+70 °C) •  
± 1 hPa (-10...+60 °C)

Sensor shelter 11 lamellas, natural ventlation of the sensors

Pyranometer Meas. range: 0...1400 W/m2

Data logger met[LOG] Ethernet: 10/100 BaseT • connector RJ45 shielded  
Interface: 3 x RS 485 (1 x freely configurable)  
Input: 4 analogue/ digital inputs (2 x freely configurable)

2 x Power supply power[cube] Power: each 150 W Output: 24 VDC

Tripod mast, height 2.5 m, aluminium-made, with mounting material

## Technical Data:

Operating Temperature Range: -20...+70°C  
Supply: 90...264 VAC  
Power Rating: 2 x 156 W  
Output Power Supply: 24 VDC

Additional Lambrecht Weather Station and Sensors Available. Please call for details