

**Product information**

**Wireless data loggers GHM DeltaBus**

**Wireless data logger  
 HD35EDW1NLTC  
 HD35EDLW1NLTC**



- **Waterproof temperature, humidity and leaf wetness wireless data logger**

**Characteristics**

Temperature and humidity and leaf wetness wireless data logger. IP 67 waterproof housing. Custom LCD display (only with option L). It stores the measures in its internal memory (22,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

Two inputs with M12 connector: one for the HP3517TC2 (AISI 304) temperature and relative humidity combined probe with NTC10KΩ temperature sensor and high accuracy R.H. sensor, and one for the leaf wetness sensor HP3501...

Calculated quantities: dew point, wet bulb temperature, absolute humidity, mixing ratio, partial vapour pressure.

Acoustic alarm with internal buzzer. Configuration via HD35AP S software. Powered by the internal battery. Installation: wall mounting with HD35.24W flange (optional) or fixing to a Ø 40 mm mast with HD2003.77/40 clamping (optional). Protection shield against solar radiations HD9217TF1 (optional) for outdoor installation. External antenna for outdoor installation with protection shield against solar radiations. Internal antenna for indoor installation.

**Technical data**

**Humidity**

Sensor	: Capacitive
Measuring range	: 0...100% RH
Resolution	: 0.1% RH
Accuracy (@ 23 °C)	: ± 1.5 %RH (0..90 %RH) ± 2 %RH (remaining range)
Sensor operating temperature	: -20...+80 °C
Temperature drift	: ±2% over the whole operating temperature range
Long-term stability	: 1% / year

**Temperature**

Sensor	: NTC 10 kΩ @ 25 °C
Measuring range	: -40...+105 °C
Resolution	: 0.1 °C
Accuracy	: ± 0.3 °C in the range 0...+70 °C ± 0.4 °C outside
Long-term stability	: 0.1 °C / year

**Leaf wetness**

Sensor	: Capacitive
Measuring range	: 0...100% of leaf area wetness
Resolution	: 0.1%
Accuracy (@ 23 °C)	: ± 5 %
Sensor operating temperature	: -30...+60 °C

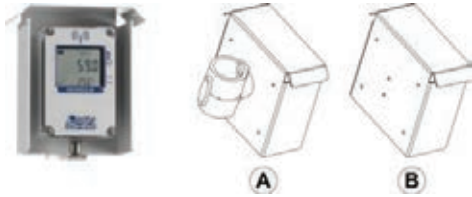
**Instrument**

Transmission frequency	: Factory configurable at choice among: 868 MHz, 902-928 MHz, 915-928 MHz, 921-928 MHz or 915,9-929,7 MHz depending on the frequency in use in the country of installation
Transmission range	: In open field: 300 m (E, J)/ 180 m (U) with internal antenna. > 500 m (E, J, U) with external antenna. (can be reduced in presence of obstacles or adverse atmospheric conditions)
Logging interval	: 1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
Power supply	: Non rechargeable lithium thionil chloride (Li-SOCl <sub>2</sub> ) internal battery, 3.6 V, AA format, 2-pole Molex 5264 connector
Battery life	: 2 years typical (without repeaters, measurement interval 5 s and log interval 30 s)
Operating conditions	: -20...+70 °C / 0...100 %RH non condensing
Dimensions	: 129 x 80 x 55 mm (excluding probes and external antenna)
Weight	: 250 g approx.
Housing	: Polycarbonate
Protection degree	: IP 67

## Product information

## Wireless data loggers GHM DeltaBus

### HD9217TF1 solar radiations shield options



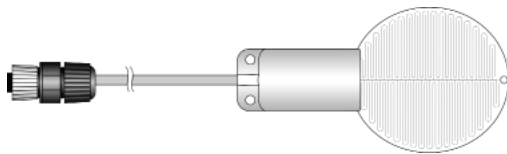
**A** = for fixing to a Ø 40 mm mast (with HD2003.77/40 clamping)  
**B** = wall mount (without clamping)

### Sensors

**HP3517TC2:** temperature and relative humidity combined sensor with high accuracy R.H. sensor and NTC10KΩ @ 25 °C temperature sensor. In AISI 304. Stem length 150 mm. 4-pole M12 connector.



**HP3501:** Leaf wetness sensor with double sensitive surface. 4 pole M12 connector.



### Ordering codes

HD35ED -  1. W1NLTC.  2.

<b>1.</b>	<b>LCD</b>
0	without LCD
L	with custom LCD
<b>2.</b>	<b>Radio frequency</b>
J	915.9-929.7 MHz (Japan)
E	868 MHz (Europe)
U	902-928 MHz (U.S.A. and Canada) reducible to 915-928 MHz (Australia) or 921-928 MHz (New Zealand)

### Ordering codes sensors

HP3517TC2. -  1.

<b>1.</b>	<b>Cable length</b>
0	cable 2 m
1	cable 5 m
2	cable 10 m

HP3501. -  1.

<b>1.</b>	<b>Cable length</b>
0	cable 5 m
1	cable 10 m