

Product information

Wireless data loggers GHM DeltaBus

**Wireless data logger
 HD35EDW14bNTC
 HD35EDLW14bNTC**



- **Waterproof temperature, humidity and atmospheric pressure wireless data logger, for T/RH combined sensor with cable**

Characteristics

Temperature, humidity and atmospheric pressure 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.

One input with M12 connector for the HP3517TC... temperature and relative humidity combined sensor with NTC10KΩ temperature sensor and high accuracy R.H. sensor. Integrated pressure sensor.

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 temp. 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 (0...+70 °C) / ± 0.4 °C (outside)
Long-term stability	: 0.1 °C / year

Atm. pressure

Sensor	: Piezo-resistive
Measuring range	: 300...1100 hPa
Resolution	: 0.1 hPa
Accuracy	: ± 0.5 hPa (800...1100 hPa) @ T=25°C ± 1 hPa (300...1100 hPa) @ T=0...50°C
Long-term stability	: 1 hPa / year

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:	2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
Power supply	: Non rechargeable lithium thionil chloride (Li-SOCI2) internal battery, 3.6 V, AA format, 2-pole Molex 5264 connector
Battery life	: 2 years typ. (without repeaters, measurement interval 10 s and log interval 30 s)
Operating conditions	: -20...+70 °C / 0...100 %RH non condensing
Dimensions	: 129 x 80 x 55 mm (excluding probe and external antenna)
Weight	: 250 g approx.
Housing	: Polycarbonate
Protection degree	: IP 67

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Sensors

HP3517TC...: temperature and relative humidity combined probe with high accuracy R.H. sensor and NTC10KΩ @ 25 °C temperature sensor. 4-pole M12 connector.



Ordering codes

HD35ED - 1. 2. W14bNTC.

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

Ordering codes sensors

HP3517E - 1. 2.

1.	Cable lenght
0	cable 135 mm
1	cable 150 mm
2	cable 335 mm
2.	Cable lenght
0	cable 2 m
1	cable 5 m
2	cable 10 m