

Product information

Wireless data loggers GHM DeltaBus

**Wireless data logger
 HD35EDW1NV
 HD35EDLW1NV**



- **Waterproof temperature, humidity and acceleration wireless data logger**

Characteristics

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

The sensors are all internal. Temperature sensor integrated in the relative humidity module. Gore-Tex® air intake.

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)	: ± 1.8 %RH (0..80 % RH) ± [1.8 + 0.11 * (RH -80)] % RH (remaining range)
Sensor operating temperature	: -40...+105 °C (R.H. max=[100-2*(T-80)] @ T=80...105 °C)
Temperature drift	: ±2% over the whole operating temperature range
Long-term stability	: 0.5% / year

Temperature

Sensor	: Sensor integrated in humidity module
Measuring range	: -40...+105 °C
Resolution	: 0.1 °C
Accuracy	: ± 0.2 °C in the range 0...+60 °C ± (0.2 - 0.05 * T) °C in the range T=-40...0 °C ± [0.2 + 0.032 * (T-60)] °C in the range T=+60...+105 °C
Long-term stability	: 0.05 °C / year

Acceleration

Sensor	: Triaxial Accelerometer
Measuring range	: 0...16 g
Resolution	: < 0.05 g (function of measured value)
Accuracy	: < 0.1 g (function of measured value)

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 ₂) 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	: -10...+60 °C / 0...100 %RH non condensing
Dimensions	: 120 x 80 x 55 mm (excluding external antenna)
Weight	: 250 g approx.
Housing	: Polycarbonate
Protection degree	: IP 67

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Ordering codes

HD35ED - ^{1.} W1NV. ^{2.}

1.	LCD
0	without LCD
L	with custom LCD
2.	Radio frequency
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)