

Product information

Wireless data loggers GHM DeltaBus

**Wireless data logger
 HD35ED14bNAB
 HD35EDG14bNAB**



- **Temperature, humidity, atmospheric pressure, carbon monoxide (CO) and carbon dioxide (CO₂) wireless data logger**

Characteristics

Temperature, humidity, atmospheric pressure, carbon monoxide and dioxide wireless data logger. Graphic LCD display (only with option G). It stores the measures in its internal memory (32,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request. The sensors are all inside the housing.

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

Acoustic alarm with internal buzzer. Configuration via HD35AP S software or front keyboard (only version with LCD). Powered by the internal battery. Wall mount removable (by using the included support) or fixed (with optional flanges) installation.

Technical data

Humidity

Sensor	: Capacitive
Measuring range	: 0...100% RH
Resolution	: 0.1% RH
Accuracy	: ± 1.8 %RH (0..80 % RH)
(@ 23 °C)	: ± [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

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

Carbon monoxide (CO)

Sensor	: Electrochemical cell
Measuring range	: 0 ... 500 ppm
Resolution	: 1 ppm
Accuracy	: ±3 ppm+3% of measurement
Operating temp.	: -5...50 °C
Response time	: T90 < 50 s
Stability	: 5% of measurement /year
Sensor life	: > 5 years in normal environmental conditions

Carbon dioxide (CO₂)

Sensor	: Non-dispersive infrared rays (NDIR)
Measuring range	: 0...5000 ppm
Resolution	: 1 ppm
Accuracy	: ±(50 ppm+3% of measurement) @ 20 °C and 1013 hPa
Operating temperature	: -5...50 °C
Response time	: T90 < 120 s (air speed= 2 m/s)
Stability	: 5% of measurement/5 years
Temperature drift	: 0.1% f.s. / °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	: 300 m (E, J)/ 180 m (U) in open field (can be reduced in presence of obstacles or adverse atmospheric conditions)
Logging interval	: 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	: 1.5 years typical (without repeaters, measurement and log interval 2 min)
Operating conditions	: -10...+70 °C / 0...85 % RH non condensing
Dimensions	: 135 x 126 x 33 mm
Weight	: 200 g approx.
Housing	: LURAN® S 777K

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Ordering codes

HD35ED - ^{1.} 14bNAB. ^{2.}

1.	LCD
0	without LCD
L	with graphic 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)