

Product information

Wireless data loggers GHM DeltaBus

**Wireless data logger
 HD35EDLW1NBTV**



- **Temperature, humidity and carbon dioxide (CO2) wireless data logger, IP 67 waterproof housing**

Characteristics

Temperature, humidity and carbon dioxide wireless data logger. IP 67 waterproof housing. Custom LCD display. It stores the measures in its internal memory (30,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

Temperature and relative humidity fixed vertical sensor with NTC10KΩ temperature sensor and high accuracy R.H. sensor. Fixed CO2 sensor with removable protection filter.

Calculated quantities: dew point, absolute humidity.

Acoustic alarm with internal buzzer. Configuration via DHD35AP S software. 7...30 Vdc external power supply. Installation: wall mounting with HD35.37 pair of flanges (optional) or fixing to a ø 40 mm mast with HD2003.77/40 clamping (optional). Protection shield against solar radiations / rain HD32MT4.6 (optional) for outdoor 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

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	: -20...+60 °C
Response time	: T90 < 120 s (air speed= 2 m/s)
Stability	: 5% of measurement/5 years
Temperature drift	: 1 ppm / °C

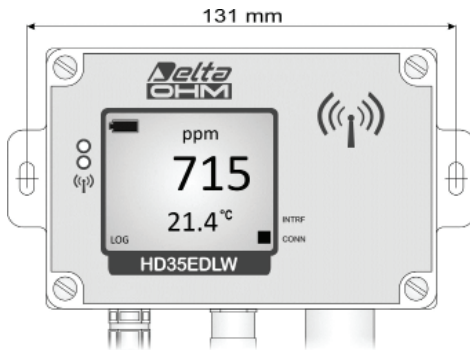
Instrument

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	: 7...30 Vdc
Current consumption	: < 5 mA average, 300 mA approx. peak
Operating conditions	: -20...+60 °C / 0...100 %RH non condensing
Dimensions	: Housing: 120 x 80 x 55 mm With sensors: 120 x 155 x 55 mm
Weight	: 200 g approx.
Housing	: Polycarbonate
Protection degree	: IP 67

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FIXING WITH OPTIONAL HD35.37 FLANGES



Ordering codes

HD35EDLW1NBTV - ^{1.}

1.	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)