

## Product information

## Wireless data loggers GHM DeltaBus

# Wireless data logger HD35ED1N/2TCV HD35EDL1N/2TCV



- **Temperature and humidity wireless data logger with T/RH fixed vertical sensor, temperature only sensor with cable**

### Characteristics

Temperature and humidity wireless data logger. 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.

Temperature and relative humidity fixed vertical sensor with **NTC10KΩ** temperature sensor and **high accuracy R.H. sensor**. One input with M12 connector for the temperature only sensor with **NTC10KΩ** 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 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 (@ 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

#### 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	: 300 m (E, J)/ 180 m (U) in open field (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-SOCl <sub>2</sub> ) 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...85 %RH non condensing
Dimensions	: 135 x 102 x 33 mm (excluding the probe)
Weight	: 200 g approx.
Housing	: LURAN® S 777K
Protection degree	: IP 64

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### Sensors

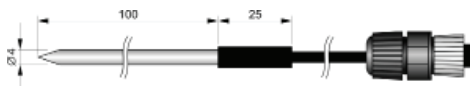
**TP35N1...**: stainless steel temperature sensor.  
 NTC10KΩ @ 25 °C sensor. Operating temperature: -20...+85 °C.  
 Dimensions: Ø 5 x 40 mm. 4-pole M12 connector.



**TP35N2...**: stainless steel temperature sensor.  
 NTC10KΩ @ 25 °C sensor. Operating temperature: 0...+70 °C.  
 Dimensions: Ø 6 x 50 mm. Double insulation.  
 4-pole M12 connector.



**TP35N5...**: stainless steel penetration temperature sensor.  
 NTC10KΩ @ 25 °C sensor. Operating temperature: 20...+105 °C.  
 Dimensions: Ø 4 x 100 mm. 4-pole M12 connector.



### Ordering codes

**HD35ED** -  <sup>1.</sup> **1N/2TCV.**  <sup>2.</sup>

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)

### Ordering codes sensors

**TP35N1.** -  <sup>1.</sup> /C

1.	Cable length
0	cable 3 m
1	cable 5 m
2	cable 10 m

**TP35N2.** -  <sup>1.</sup> /C

1.	Cable length
0	cable 3 m
1	cable 5 m
2	cable 10 m

**TP35N5.** -  <sup>1.</sup> /C

1.	Cable length
0	cable 3 m
1	cable 5 m