

**Product information**

**Wireless data loggers GHM DeltaBus**

**Wireless data logger  
 HD35ED1N4r...TV  
 HD35EDL1N4r...TV**



- Temperature, humidity and differential pressure wireless data logger with T/RH fixed vertical sensor

**Characteristics**

Temperature, humidity and differential pressure 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. Pressure input for Ø 5 mm tubes.

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**

<b>Humidity</b>	
Sensor	: Capacitive
Measuring range	: 0...100% RH
Resolution	: 0.1% RH
Accuracy (@ 23 °C)	: ± 1.5 %RH (0..90 %RH) ± 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

<b>Temperature</b>	
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
<b>Diff. pressure</b>	
Sensor	: r1...r4: Piezo-resistive r5: thermal mass flow sensing element
Measuring range	: r1: ±2.5 hPa r2: ±10 hPa r3: ±100 hPa r4: ±2000 hPa r5: ±125 Pa (for clean rooms (**))
Resolution	: r1: 0.001 hPa r2: 0.005 hPa r3: 0.05 hPa r4: 1 hPa r5: 0.01 Pa
Accuracy	: r1...r4: ± 1% f.s. r5: ± 3% of reading, ± 0.1 Pa @ 0 Pa over the whole compensated temperature range (0...50 °C)
Connection	: Tube Ø 5 mm (**)

<b>Instrument</b>	
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	: 1, 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	: r1...r4: 2 years typical (without repeaters, measurement interval 5 s and log interval 30 s) r5: 1.5 years typical (without repeaters, measurement and log interval 30 s)
Operating conditions	: -20...+70 °C / 0...85 %RH non condensing
Dimensions	: 135 x 144 x 33 mm
Weight	: 200 g approx.
Housing	: LURAN® S 777K
Protection degree	: IP 64

(\*) The model r5 measures dynamic pressures (not suitable for the measurement of static pressures) and requires a small air flow between the two pressure inputs. Metal inputs with tube clamp ring to minimize pressure losses.

(\*\*) In the model r5 it is recommended to use tubes with at least 5 mm internal diameter.

## Product information

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### Ordering codes

HD35ED -  1.  2. 1N4r  TV.  3.

<b>1.</b>	<b>LCD</b>
0	without LCD
L	with custom LCD
<b>2.</b>	<b>Measuring range</b>
0	±2,5 hPa
1	±10 hPa
2	±100 hPa
3	±2000 hPa
4	±125 Pa
<b>3.</b>	<b>Radio frequency</b>
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)