

Product information

Wireless data loggers GHM DeltaBus

**Wireless data logger
 HD35ED1NUBTCV
 HD35EDL1NUBTCV**



- **Temperature, humidity and UVB irradiance wireless data logger**

Characteristics

Temperature, humidity and UVB irradiance wireless data logger. Custom LCD display (only with option L). It stores the measures in its internal memory (44,000 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 LP 35 UVB irradiance 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

UVB Irradiance

Sensor	: Photodiode
Measuring range	: 0...100 W/m2
Resolution	: 0.01 W/m2 (0...10 W/m2) 0.1 W/m2 (10...100 W/m2)
Spectral range	: UVB, peak ≅ 305 nm
Calibration uncertainty	: <5%
f2 (response as cosine law)	: <6%
f3 (linearity)	: <2%
f4 (instrument reading error)	: ± 1 digit
f5 (fatigue)	: <0.5%
One year drift	: <2%
Operating temperature	: 0...50 °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	: 1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
Power supply	: Non rechargeable lithium thionil chloride (Li-SOCI2) 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	: -20...+70 °C / 0...85 %RH non condensing
Dimensions	: 135 x 126 x 33 mm
Weight	: 200 g approx.
Housing	: LURAN® S 777K
Protection degree	: IP 64

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Sensors

P 35 PHOT

Photometric sensor for the measurement of illuminance, CIE photopic filter, spectral response in accordance with standard photopic vision, diffuser for cosine correction.

Measurement range: 0...200,000 lux. Cable length 2m.

LP BL

Base with level. On request, to be assembled to the sensor upon ordering.



LP BL3

Adjustable wall support.



Ordering codes

HD35ED - 1NUB. TCV.

1.	LCD	
	0	without LCD
	L	with custom LCD
2.	Lux range	
	0	0...20,000 lux
	1	0...200,000 lux
3.	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)