

Product information

Wireless data loggers GHM DeltaBus

**Wireless data logger
 HD35ED1NITV
 HD35EDL1NITV**



● **Temperature, humidity and illuminance wireless data logger**

Characteristics

Temperature, humidity and illuminance 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. Integrated illuminance 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 ± : 1.5 %RH (0..90 %RH)
 (@ 23 °C) ± 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

Illuminance

Sensor : Photodiode
 Measuring range : 0...20,000 lux
 Resolution : 1 lux (0...2,000 lux), 10 lux (>2,000 lux)
 Spectral range : According to standard photopic curve V(λ)
 α (temperature coefficient) : <0.05% K
 f6(T)
 Calibration uncertainty : <4%
 f'1 (according to photopic response V(λ)) : <6%
 f2 (response as cosine law) : <3%
 f3 (linearity) : <1%
 f4 (instrument reading error) : <0.5%
 f5 (fatigue) : <0.5%
 Class : B
 One year drift : <1%
 Operating temperature : 0...50 °C
 Reference standard : CIE n°69 – UNI 11142

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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Ordering codes

HD35ED - 1NITV.

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)