

# Wireless data logger HD35EDLW1NI...TCV



- **Temperature, humidity and illuminance wireless data logger, IP 67 waterproof housing**

## Characteristics

Temperature, humidity and illuminance 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 probe with NTC10KΩ temperature sensor and high accuracy R.H. sensor. LP 35 PHOT 03BL illuminance probe (optional) with 5 m cable, M12 connector and base with level.

Calculated quantities: dew point, absolute humidity.

Acoustic alarm with internal buzzer. Configuration via HD35AP S software. Powered by the internal battery. 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

### Illuminance

Sensor	: Photodiode
Measuring range	: 0...200,000 lux
Resolution	: 10 lux (0...20,000 lux), 100 lux (>20,000 lux)
Spectral range	: According to standard photopic curve V(λ)
Calibration uncertainty	: <4%
f1 (according to photopic response V(λ))	: <6%
f2 (response as cosine law)	: <3%
f3 (linearity)	: <1%
Probe operating temperature	: -20...+60 °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	: 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
Power supply	: Non rechargeable lithium thionil chloride (Li-SOCI <sub>2</sub> ) 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...100 %RH non condensing
Housing dimensions	: 120 x 80 x 55 mm
Weight	: 250 g approx.
Housing	: Polycarbonate
Protection degree	: IP 67

**Product information**

**Wireless data loggers GHM DeltaBus**

**LP 35 PHOT 03BL:** photometric probe for the measurement of illuminance, for outdoor use, CIE photopic filter, spectral response in accordance with standard photopic vision, diffuser for cosine correction. Measurement range: 0...200,000 lux. Cable length 5 m.

**Ordering codes**

HD35EDLW1NI2TCV - <sup>1.</sup>

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)	