

Product information

Wireless data loggers GHM DeltaBus

**Wireless data logger
 HD35ED1N/2TC
 HD35EDL1N/2TC**



- **Temperature and humidity wireless data logger for T/RH combined sensor and temperature 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.

Two inputs with M12 connector for the HP3517TC... temperature and relative humidity combined sensor with NTC10KΩ temperature sensor and high accuracy R.H. sensor, and for the temperature only sensor with NTC10KΩ probe.

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
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 102 x 33 mm (excluding the probes)
Weight	: 200 g approx.
Housing	: LURAN® S 777K
Protection degree	: IP 64

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Sensors

HP3517TC...: temperature and relative humidity combined sensor with high accuracy R.H. sensor and NTC10KΩ @ 25 °C temperature sensor. 4-pole M12 connector.



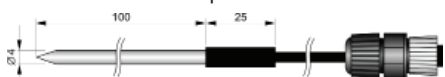
TP3N1...: stainless steel temperature sensor. NTC10KΩ @ 25 °C sensor. Operating temperature: -20...+85 °C. Dimensions: Ø 5 x 40 mm. 4-pole M12 connector.



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 - ^{1.} ^{2.} 1N/2TC.

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

HP3517 - ^{1.} ^{2.}

1.	Cable length
0	cable 135 mm
1	cable 335 mm
2.	Cable length
0	cable 2 m
1	cable 5 m
2	cable 10 m

TP35N1. - ^{1.} /C

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

TP35N2. - ^{1.} /C

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

TP35N5. - ^{1.} /C

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