C 2 A i
Instrumentation et régulation des fluides

Enregistreur d'humidité HR%

REF. HD 35ED(L) 1N TC

HD35ED1NTC – HD35EDL1NTC

Temperature and humidity wireless data logger for T/RH combined probe with cable

Temperature and humidity wireless data logger. Custom LCD display (only with **option L**). It stores the measures in its internal memory (24,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

One input with M12 connector for the **HP3517TC...** temperature and relative humidity combined probe with **NTC10KΩ** temperature sensor and **high accuracy R.H. sensor**.

Calculated quantities: dew point, wet bulb temperature, absolute humidity, mixing ratio, partial vapour pressure.

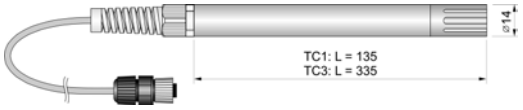
Acoustic alarm with internal buzzer. Configuration via **HD35AP-S** software or front keyboard (only version with LCD). Powered by the internal battery. Wall mount removable (by using the included support) or fixed (with optional flanges) installation.

TECHNICAL CHARACTERISTICS

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 thyonil chloride (Li-$SOCl_2$) 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 probe)
Weight	200 g approx.
Housing	ABS
Protection degree	IP 64

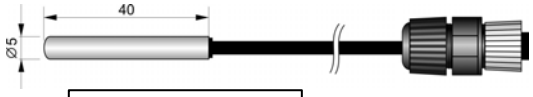
PROBES

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



HP3517 [ ] . [ ]
- **CABLE LENGTH:** **2** = 2 m, **5** = 5 m, **10** = 10 m
- **STEM LENGTH:** **TC1** = 135 mm, **TC3** = 335 mm

TP35N1...: stainless steel temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: -20...+85 °C. Dimensions: Ø 5 x 40 mm. 4-pole M12 connector.

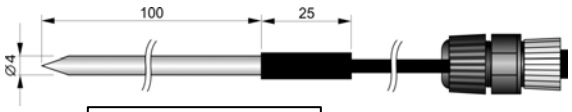


TP35N1. [ ] **/C** — **3** = cable 3m, **5** = cable 5m, **10** = cable 10m

TP35N2...: stainless steel temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: 0...+70 °C. Dimensions Ø 6 x 50 mm. Double insulation. 4-pole M12 connector.

TP35N2. [ ] **/C** — **3** = cable 3m, **5** = cable 5m, **10** = cable 10m

TP35N5...: stainless steel penetration temperature probe. NTC10KΩ @ 25 °C sensor. Operating temperature: -20...+105 °C. Dimensions: Ø 4 x 100 mm. 4-pole M12 connector.



TP35N5. [ ] **/C** — **3** = cable 3m, **5** = cable 5m

Note:connecting a temperature only probe, the humidity measurements will be in error.

LOGGER ORDERING CODES

D35ED [ ] **1NTC.** [ ]

- **LCD:** **Blank** = without LCD; **L** = with custom LCD
- **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)

HD35ED17PTC – HD35EDL17PTC

Temperature and humidity wireless data logger for T/RH combined probe with cable

Temperature and humidity wireless data logger. Custom LCD display (only with **option L**). It stores the measures in its internal memory (24,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request.

One input with M12 connector for the **HP3517ETC...** temperature and relative humidity combined probe with **Pt100** temperature sensor and **high accuracy R.H. sensor**.

Calculated quantities: dew point, wet bulb temperature, absolute humidity, mixing ratio, partial vapour pressure.

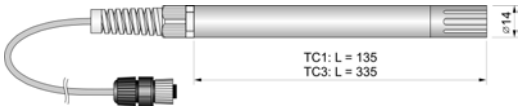
Acoustic alarm with internal buzzer. Configuration via **HD35AP-S** software or front keyboard (only version with LCD). Powered by the internal battery. Wall mount removable (by using the included support) or fixed (with optional flanges) installation.

TECHNICAL CHARACTERISTICS

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	-40...+150 °C
Temperature drift	±2% over the whole operating temperature range
Long-term stability	1% / year
Temperature	
Sensor	Thin film 1/3 DIN Pt100
Measuring range	-40...+150 °C
Resolution	0.1 °C
Accuracy	1/3 DIN
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 thyonil chloride (Li-$SOCl_2$) 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 probe)
Weight	200 g approx.
Housing	ABS
Protection degree	IP 64

PROBES

HP3517ETC...: temperature and relative humidity combined probe with high accuracy R.H. sensor and Pt100 temperature sensor. 4-pole M12 connector.



HP3517E [ ] . [ ]

CABLE LENGTH:
2 = 2 m, **5** = 5 m, **10** = 10 m

STEM LENGTH:
TC1 = 135 mm, **TC3** = 335 mm

DATA LOGGER ORDERING CODES

35ED [ ] **17PTC.** [ ]

LCD:
Blank = without LCD
L = with custom LCD

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)

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