TEMPERATURE, HUMIDITY AND CARBON DIOXIDE (CO₂) WIRE-**LESS DATA LOGGER**



HD35ED-O-1NB-E

Art. no. 609836

Temperature, humidity and carbon dioxide (CO₂) wireless data logger, without display

HD35ED-G-1NB-E

Art. no. 608701

Temperature, humidity and carbon dioxide (CO₂) wireless data logger, with display

HD35ED-G-1NB-E 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. The sensors are all inside the housing

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

Acoustic alarm with internal buzzer. Configuration via HD35-AP-S software or front keyboard. Powered by the internal battery. Wall mount removable (by using the included support) or fixed (with optional flanges) installation.

Specifications:
Humidity
Concorr

Capacitive Measuring ranges: 0 ... 100 % RH Resolution: 0.1 % RH Accuracy (@ 23 °C): ±1.8 % RH (0 ... 80 % RH)

±[1.8 + 0.11 * (RH -80)] % RH (remaining range)

Sensor

Working temperature: -40 ... +105 °C (RH max=[100^{-2*}(T-80)] @ T= 80 ... 105 °C)

Temperature

Sensor integrated in humidity module

Measuring ranges: -40 ... +105 °C 0.1 °C Resolution:

±0.2 °C in the range 0 ... +60 °C Accuracy:

 \pm (0.2 - 0.05 * T) °C in the range T=-40 ... 0 °C \pm [0.2 + 0.032 * (T-60)] °C in the range T=60 ... 105 °C

Carbon dioxide (CO₂)

Sensor: Non-dispersive infrared rays (NDIR)

Measuring ranges: 0 ... 5.000 ppm **Resolution:** 1 ppm

 \pm (50 ppm +3 % of measurement) @ 20 °C and 1013 hPa **Accuracy:**

Working temperature: -5 ... +50 °C

Response time: T_{90} < 120 s (air speed= 2 m/s)

Instrument

Transmission frequency: 868 MHz

Transmission range: 300 m (E, J)/180 m (U) in open field (can be reduced in presen-

ce of obstacles or adverse atmospheric conditions)

Logging interval: 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min

Non rechargeable lithium thyonil chloride (Li-SOCl₂) internal Power supply: battery, 3.6 V, AA format, 2-pole Molex 5264 connector

Battery life: 1.5 years typical (without repeaters, measurement and log

interval 2 min)

Operating conditions: -10 ... +70 °C / 0 ... 85 % RH non condensing

135 x 126 x 33 mm (H x W x D) **Dimensions:**

Housing:

Device, battery HD35-BAT1, wall mount support HD35-03; For Scope of supply:

configuration a basic unit HD35-AP-... (see page 156/157) is

required.

WIRELESS DATA LOGGER WITH 3 TERMINAL HEADER INPUTS



HD35ED-G-H-E

Art. no. 609837

Wireless data logger with three terminal header inputs for standard sensors, with display

General:

 $Wire less \ data \ logger \ with \ three \ terminal \ header \ inputs \ for \ the \ connection \ of \ transmitters \ with$ 4 ... 20 mA, 0 ... 1 V or 0 ... 50 mV output, Pt100 / Pt1000 sensors, K, J, T, N, E thermocouples, sensors with voltage free contact output (max. one sensor) and potentiometric sensors. It stores the measures in its internal memory (from 36,000 to 68,000 samples depending on the number and type of connected sensors) and transmits the logged data to the base unit automatically at regular intervals or upon request. Acoustic alarm with internal buzzer. Configuration via HD35-AP-S software. Powered by the internal battery. Wall mount removable (by using the included support) or fixed (with optional flanges) installation.

The model HD35ED-G-H-E is equipped with three terminal header inputs. Each input can be configured as input for: Pt100/Pt1000, thermocouple, 4 ... 20 mA (the shunt resistance is internal),

	0 1 V, 0 50 mV or potention of switchings of a voltage-free	lse counter (counting		
	Specifications:			
	Pt100/Pt1000			
	Measuring ranges:	-200 +650 °C		
	Resolution:	0.1 °C		
	Accuracy:	±0.1 °C (excluding probe error)		
	Connection:	2, 3 or 4 wires		
	Thermocouple			
	Measuring ranges:	K: -200 +1370 °C T: -200 +400 °C	J: -100 +750 °C N: -200 +1.300 °C	E: -200 +750 °C
	Resolution:	0.1 °C		
	Accuracy:	±0.1 ~0.2 °C (excluding probe error)		
	Input 0/4 20 mA			
	Shunt resistance:	Internal (50 Ω)		
	Resolution:	16 bit		
	Accuracy:	±2 μA		
	Input 0 50 mV / 1 V			
	Input resistance:	100 ΜΩ		
	Resolution:	16 bit		
	Accuracy:	±0.01 % f.s.		
	Voltage-free contact			
	Switching frequency:	50 Hz max.		
	Potentiometer			
	Value, Resolution:	Typical 10 kΩ, 16 bit		
	Accuracy:	±0.01 % f.s.		
	Instrument			
	Transmission frequency:	868 MHz		
Transmission range: 300 m (E, J)/180 m (U) in open field (can be reduce of obstacles or adverse atmospheric condition			•	

Logging interval: 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min

Non rechargeable lithium thyonil chloride (Li-SOCI₂) internal Power supply: battery, 3.6 V, AA format, 2-pole Molex 5264 connector

Battery life: 2 years typ. (without repeaters, measurement interval 10 s and

log interval 30 s)

Operating conditions: -10 ... +70 °C / 0 ... 85 % RH non condensing

Dimensions: 135 x 110 x 33 mm (H x W x D) **Housing:** LURAN® S 777K

Scope of supply: Device, battery HD35-BAT1, wall mount support HD35-03; For configuration a basic unit HD35-AP-... (see page 156/157) is