

Temperature, humidity, atmospheric pressure, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) wireless data logger



**NEW!**

**HD35ED-G-14BNAB-E**

Art. no. 608702

Temperature, humidity, atmospheric pressure, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) wireless data logger, with display

**HD35ED-O-14BNAB-E**

Art. no. 609834

Temperature, humidity, atmospheric pressure, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) wireless data logger, without display

General:	
HD35ED-G-14BNAB-E stores the measures in its internal memory (32,000 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	
<b>Sensor:</b>	Capacitive
<b>Measuring range:</b>	0 ... 100 % RH
<b>Resolution:</b>	0.1 % RH
<b>Accuracy (@ 23 °C):</b>	±1.8 % RH (0 ... 80 % RH) ±[1.8 + 0.11 * (RH - 80)] % RH (remaining range)
Sensor	
<b>Operating temperature:</b>	-40 ... +105 °C (RH max=[100 <sup>-2*</sup> (T-80)] @ T=80 ... 105 °C)
Temperature	
<b>Sensor:</b>	Sensor integrated in humidity module
<b>Measuring range:</b>	-40 ... +105 °C
<b>Resolution:</b>	0.1 °C
<b>Accuracy:</b>	±0.2 °C in the range 0 ... +60 °C ±(0.2 - 0.05 * T) °C in the range T=-40 ... 0 °C ±[0.2 + 0.032 * (T-60)] °C in the range T=+60 ... +105 °C
Atm. pressure	
<b>Sensor:</b>	Piezo-resistive
<b>Measuring range:</b>	300 ... 1100 hPa
<b>Resolution:</b>	0.1 hPa
<b>Accuracy:</b>	±0.5 hPa (800 ... 1100 hPa) @ T=25 °C ±1 hPa (300 ... 1100 hPa) @ T=0 ... 50 °C
Carbon monoxide (CO)	
<b>Sensor:</b>	Electrochemical cell
<b>Measuring range:</b>	0 ... 500 ppm
<b>Resolution:</b>	1 ppm
<b>Accuracy:</b>	±3 ppm +3 % of measurement
<b>Operating temperature:</b>	-5 ... +50 °C
<b>Response time:</b>	T <sub>90</sub> <50 s

Carbon dioxide (CO <sub>2</sub> )	
<b>Sensor:</b>	Non-dispersive infrared rays (NDIR)
<b>Measuring range:</b>	0 ... 5000 ppm
<b>Resolution:</b>	1 ppm
<b>Accuracy:</b>	±(50 ppm +3 % of measurement) @ 20 °C and 1013 hPa
<b>Operating temperature:</b>	-5 ... +50 °C
<b>Response time:</b>	T <sub>90</sub> <120 s (air speed= 2 m/s)
Instrument	
<b>Transmission frequency:</b>	868 MHz
<b>Transmission range:</b>	300 m (E, J)/180 m (U) in open field (can be reduced in presence of obstacles or adverse atmospheric conditions)
<b>Logging interval:</b>	10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
<b>Power supply:</b>	Non rechargeable lithium thionil chloride (Li-SOCl <sub>2</sub> ) internal battery, 3.6 V, AA format, 2-pole Molex 5264 connector
<b>Battery life:</b>	1.5 years typical (without repeaters, measurement and log interval 2 min)
<b>Operating conditions:</b>	-10 ... +70 °C / 0 ... 85 % RH non condensing
<b>Dimensions:</b>	135 x 126 x 33 mm (H x W x D)
<b>Housing:</b>	LURAN® S 777K
<b>Scope of supply:</b>	Device, battery HD35-BAT1, wall mount support HD35-03; For configuration a basic unit HD35-AP-... (see page 144) is required.

Accessories p.r.t. page 150

Handheld instrument  
Display / Controller  
Logger- / Bus systems  
Transmitter  
Temperature probe  
Simulators  
Alarm / Protection, Level