TEMPERATURE AND HUMIDITY WIRELESS DATA LOGGER

HIGHER ACCURACY

HD35ED-L-1N-TV-E
Art. no. 608646

Temperature and humidity wireless data logger with T / RH fixed vertical probe

General:

HD35ED-L-1N-TV-E 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. Temperature and relative humidity fixed vertical probe with NTC 10 KΩ 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 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

Sensor:	Capacitive
Measuring ranges:	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

Sensor:	NTC 10 kΩ @ 25 °C
Measuring ranges:	-40 ... +105 °C
Resolution:	0.1 °C
Accuracy:	±0.3 °C in the range 0 ... +70 °C ±0.4 °C outside

Instrument

Transmission frequency:	868 MHz
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 144 x 33 mm (H x W x D)
Housing:	LURAN® S 777K
Protection degree:	IP 64
Scope of supply:	Device, battery HD35-BAT1, wall mount support HD35-03; For configuration a basic unit HD35-AP-... (see page 156/157) is required.

TEMPERATURE, HUMIDITY AND ATMOSPHERIC PRESSURE WIRELESS DATA LOGGER

HD35ED-G-14BN-TVI-E
Art. no. 608699

Temperature, humidity and atmospheric pressure wireless data logger with T / RH fixed vertical probe

General:

HD35ED-G-14BN-TVI-E 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.
Temperature and relative humidity fixed vertical probe with temperature sensor integrated in the R.H. module. Integrated pressure sensor.
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

Sensor:	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:	Sensor integrated in humidity module
Measuring ranges:	-40 ... +105 °C
Resolution:	0.1 °C
Accuracy:	±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

Atmospheric pressure

Sensor:	Piezo-resistive
Measuring ranges:	300 ... 1.100 hPa
Resolution:	0.1 hPa
Accuracy:	±0.5 hPa (800 ... 1100 hPa) @ T=25 °C ±1 hPa (300 ... 1100 hPa) @ T=0 ... 50 °C

Instrument

Transmission frequency:	868 MHz
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:	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 typ. (without repeaters, measurement interval 10 s and log interval 30 s)
Operating conditions:	-20 ... +70 °C / 0 ... 85 % RH non condensing
Dimensions:	135 x 144 x 33 mm (H x W x D)
Housing:	LURAN® S 777K
Protection degree:	IP 64
Scope of supply:	Device, battery HD35-BAT1, wall mount support HD35-03; For configuration a basic unit HD35-AP-... (see page 156/157) is required.

for further information p.r.t. www.gsg-e-shop.com - Phone no.: +49 931 30 40 8-0

HANDHELD INSTRUMENT

DISPLAY / CONTROLLER

LOGGER- / BUS SYSTEMS

TRANSMITTER

TEMPERATURE PROBE

ALARM / PROTECTION, LEVEL