

**WATERPROOF WIRELESS DATA LOGGER WITH FOUR TERMINAL HEADER INPUTS**



**HD35ED-W-H-E**

Art. no. 608638

Waterproof wireless data logger with four terminal header inputs for standard sensors, without display

**General:**

Wireless data logger with four terminal header inputs for the connection of transmitters with 4 ... 20 mA, 0 ... 1/0 ... 10 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. IP 67 waterproof housing. It stores the measures in its internal memory (from 28,000 to 58,000 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 or external 7... 28 V dc power supply (option E). Installation: wall mounting with HD35-24W flange (optional)

**Specifications:**

**Pt100/Pt1000**

<b>Measuring ranges:</b>	-200 ... +650 °C
<b>Resolution:</b>	0.1 °C
<b>Accuracy:</b>	±0.1 °C (Ausschluss Sondenfehler)
<b>Connection:</b>	2, 3 or 4 wires

**Thermocouple**

<b>Measuring ranges:</b>	K: -200 ... +1.370 °C	J: -100 ... +750 °C
	E: -200 ... +750 °C	T: -200 ... +400 °C
	N: -200 ... +1.300 °C	
<b>Resolution:</b>	0.1 °C	
<b>Accuracy (excluding probe error):</b>	K: ±0.1 °C (<600 °C)	E: ±0.1 °C (<300 °C)
	±0.2 °C (>600 °C)	±0.2 °C (>300 °C)
	N: ±0.1 °C (<600 °C)	J: ±0.1 °C
	±0.2 °C (>600 °C)	T: ±0.1 °C

**Input 0/4 ... 20 mA**

<b>Shunt resistance:</b>	Internal (50 Ω)
<b>Resolution:</b>	16 bit
<b>Accuracy:</b>	±2 µA

**Voltage Input**

<b>Input resistance:</b>	100 MΩ
<b>Resolution:</b>	16 bit
<b>Accuracy:</b>	±0.01 % f.s.

**Voltage-free contact**

<b>Switching frequency:</b>	50 Hz max.
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**Potentiometer**

<b>Value:</b>	Typical 10 kΩ
<b>Resolution:</b>	16 bit
<b>Accuracy:</b>	±0.01 % f.s.

**Instrument**

<b>Transmission frequency:</b>	868 MHz
<b>Transmission range:</b>	In open field: 300 m (E, J)/ 180 m (U) with internal antenna
<b>Logging interval:</b>	5, 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, C format, 2-pole Molex 5264 connector
<b>Battery life:</b>	4 years typ. (without repeaters, measurement interval 10 s and log interval 30 s)
<b>Operating conditions:</b>	-20 ... +70 °C / 0 ... 100 % RH non condensing
<b>Dimensions:</b>	140 x 80 x 55 mm (excluding ext. antenna) (H x W x D)
<b>Housing:</b>	Polycarbonate
<b>Protection degree:</b>	IP 67
<b>Scope of supply:</b>	Device, battery; For configuration a basic unit HD35-AP-... (see page 156/157) is required.

**WATERPROOF TEMPERATURE WIRELESS DATA LOGGER WITH FIXED VERTICAL PROBE**



**HD35ED-W-N-TV-E**

Art. no. 608645

Waterproof temperature wireless data logger with fixed vertical probe, without display

**General:**

IP 67 waterproof housing. It stores the measures in its internal memory (68,000 samples) and transmits the logged data to the base unit automatically at regular intervals or upon request. Temperature fixed vertical probe with NTC 10 KΩ temperature sensor. Acoustic alarm with internal buzzer. Configuration via HD35-AP-S software. Powered by the internal battery. Installation: wall mounting with HD35-24W flange (optional)

**Specifications:**

**Temperature**

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

**Instrument**

<b>Transmission frequency:</b>	868 MHz
<b>Transmission range:</b>	In open field: 300 m (E, J)/ 180 m (U) with internal antenna.
<b>Logging interval:</b>	1, 2, 5, 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>	2 years typical (without repeaters, measurement interval 5 s and log interval 30 s)
<b>Operating conditions:</b>	-20 ... +70 °C / 0 ... 100 % RH non condensing
<b>Dimensions:</b>	170 x 80 x 55 mm (excluding external antenna) (H x W x D)
<b>Housing:</b>	Polycarbonate
<b>Protection degree:</b>	IP 67
<b>Scope of supply:</b>	Device, battery; For configuration a basic unit HD35-AP-... (see page 156/157) is required.

Accessories p.r.t. page 163