C2Ai
Instrumentation et régulation des fluides

# Enregistreur 3 voies multifonction
# Wireless datalogger 3 terminal header inputs

## REF. HD 35EDH

Wireless 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.

Graphic LCD display (only with **option G**). 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 **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

| | |
|---|---|
| **Pt100/Pt1000** | |
| Measuring range | -200...+650 °C |
| Resolution | 0.1 °C |
| Accuracy | ± 0.1 °C (excluding probe error) |
| Sensor coefficient | $\alpha$=0.00385 °C$^{-1}$ |
| Connection | 2, 3 or 4 wires |
| **Thermocouple** | |
| Thermocouple type | K, J, T, N, E (inputs not isolated, **use thermocouples with isolated hot junction**) |
| Measuring range | K: -200...+1370 °C J: -100...+750 °C<br>E: -200...+750 °C T: -200...+400 °C<br>N: -200...+1300 °C |
| Resolution | 0.1 °C |
| Accuracy (excluding probe error) | K: ± 0.1°C (< 600°C) E: ± 0.1°C (< 300°C)<br>± 0.2°C (> 600°C) ± 0.2°C (> 300°C)<br>N: ± 0.1°C (< 600°C) J: ± 0.1°C<br>± 0.2°C (> 600°C) T: ± 0.1°C |
| **Input 0/4...20mA** | |
| Shunt resistance | Internal (50 Ω) |
| Resolution | 16 bit |
| Accuracy | ± 2 µA |
| **Input 0...50mV/1V** | |
| Input resistance | 100 MΩ |
| Resolution | 16 bit |
| Accuracy | ± 0.01% f.s. |
| **Voltage-free contact** | |
| Switching frequency | 50 Hz max. |
| Hold Time | 10 ms min. |
| **Potentiometer** | |
| Value | Typical 10 kΩ |
| Resolution | 16 bit |
| Accuracy | ± 0.01% f.s. |
| **Instrument** | |
| Transmission frequency | Factory configurable at choice among: 868 MHz, 902-928 MHz, 915-928 MHz o 921-928 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 | 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 | -10...+70 °C / 0...85 %RH non condensing |
| Dimensions | 135 x 110 x 33 mm |
| Weight | 200 g approx. |
| Housing | LURAN® S 777K |

### PROBES

**TP35.1...**: stainless steel temperature probe. 4-wire 1/3 DIN Pt1000 sensor. Operating temperature: -50...+105 °C. Dimensions: Ø 5 x 40 mm. Cable ending with free wires.

**TP35.1.** ☐ — **3** = cable 3m, **5** = cable 5m, **10** = cable 10m

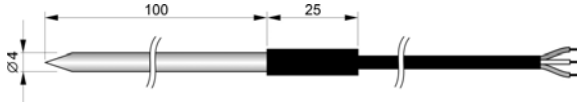
**TP35.2...**: thermoplastic rubber temperature probe. 3-wire 1/3 DIN Pt1000 sensor. Operating temperature: 0...+70 °C. Dimensions Ø 5 x 20 mm. Cable ending with free wires.

**TP35.2.** ☐ — **3** = cable 3m, **5** = cable 5m

**TP35.4...**: stainless steel temperature probe. 4-wire 1/3 DIN Pt100 sensor. Operating temperature: -50...+105 °C. Dimensions: Ø 6 x 50 mm. Cable ending with free wires.

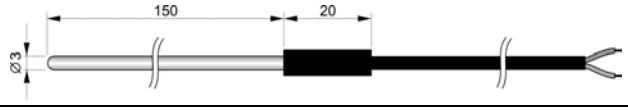
**TP35.4.** ☐ — **3** = cable 3m, **5** = cable 5m, **10** = cable 10

**TP35.5...**: stainless steel penetration temperature probe. 3-wire 1/3 DIN Pt1000 sensor. Operating temperature: -40...+300 °C. Dimensions: Ø 4 x 100 mm. Cable ending with free wires.




**TP35.5.** ☐ — **3** = cable 3m, **5** = cable 5m

**TP35K6.5**: stainless steel temperature probe. K-type thermocouple sensor wih isolated junction. Operating temperature: -50...+750 °C. Cable length 5 m. Cable ending with free wires.




### DATA LOGGER ORDERING CODES

**HD35ED** ☐ **H.** ☐

**LCD: Blank** = without LCD
**G** = with graphic LCD

**RADIO FREQUENCY:**
**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)
The option **J** (Japan) is not available

Document non contractuel - Nous nous réservons la possibilité de faire évoluer les caractéristiques de nos produits sans préavis

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