



# Compact Mini Data Logger

HD208 SERIES

T / RH / DEW POINT MONITORING

## INTRODUCTION

The HD208 series data loggers redefine ease and reliability in temperature, humidity, and dew point monitoring. Designed to adapt seamlessly to a wide range of applications, these compact, durable devices are perfect for industries such as transportation, food safety (HACCP), pharmaceuticals, and storage. Whether you need to ensure optimal conditions during transport or monitor sensitive environments like warehouses and laboratories, the HD208 series offers unparalleled performance and simplicity.

## FEATURES

### Temperature Monitoring

Choose from internal, external fixed, or cabled sensors.

### Temperature and Humidity Tracking

Benefit from combined probes, either fixed or with a cable, for comprehensive environmental monitoring.

### User-Friendly Logging Options

Start and stop data logging manually or program specific acquisition times. With delayed start functionality, you can set up logging to begin at your convenience.

### Comprehensive Alerts

Stay informed with two customizable alarm thresholds for each detected parameter.

### Comprehensive Connectivity

The mini-USB port allows for quick PC connection, facilitating easy configuration and data transfer.

### Easy Data Access

After logging, instantly generate PDF reports and CSV files that can be transferred to any PC via USB—no special software required. The device functions like a USB flash drive for seamless integration.

## CONFIGURATION & MEASUREMENT

### Effortless Configuration and Customization

Setting up your HD208 logger is simple, thanks to the free HD35AP-S application software, which enables:

- Full device configuration and real-time monitoring.
- Secure data transfers without requiring USB driver installation, ensuring compatibility across all Windows® versions.
- For advanced compliance, the HD35AP-CFR21 software supports FDA 21 CFR Part 11 standards for data integrity.
- The sensors are pre-calibrated and require no further calibration by the user. If necessary, the user can perform a new calibration using the HD35AP S application software.
- All versions can be ISO 17025 certified, upon quote.



[www.senseca.com](http://www.senseca.com)



### PRECISION MONITORING

Monitor temperature, relative humidity, and dew point with unmatched precision. Ideal for industrial, scientific, and environmental applications



### FLEXIBLE MODELS

Choose from configurations with internal, fixed, or cabled sensors, and optional LCD display for real-time data.



### EFFORTLESS DATA MANAGEMENT

Generate PDF and CSV reports directly on the device. Transfer data easily via USB without additional software or drivers.



### ADVANCED CONFIGURATION

Use the HD35AP-S software for device configuration, real-time monitoring, and database integration. Optional CFR21 software ensures compliance with FDA standards.



### LONG-LASTING RELIABILITY

Powered by a long-life lithium battery, pre-calibrated sensors require no additional setup and offer ISO 17025 certification upon request.

## Measurement specifications

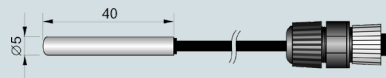
### Relative Humidity

Sensor	Capacitive
Measuring range	0...100 %RH
Resolution	0.1 %RH
Accuracy	± 1.5 %RH (0...85 %RH) ± 2.5 %RH (85...100 %RH) @ T=15...35 °C ± (2 + 1.5% measure)% @ T=remaining range
Sensor operating temperature	-40...+80 °C
Response time	T <sub>90</sub> < 20 s (air speed 2 m/s, without filter)
Temperature drift	±2% over the whole operating temperature range
Long-term stability	1%/year

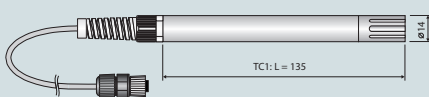
### Temperature

Sensor	NTC10kΩ @ 25 °C
Measuring range	-40...+105 °C In the case of internal sensor or external fixed probe, the measuring range is limited by the maximum operating temperature of the instrument.
Resolution	0.1 °C
Accuracy	± 0.3 °C in the range 0...+70 °C / ± 0.4 °C outside
Long-term stability	0.1 °C/year
Unit of measurement	°C or °F

## External probes with cable



**TP35N1.3/C**  
Temperature probe with NTC10KΩ sensor



**HP3517TC1.2**  
Temperature and relative humidity combined probe

## Ordering codes

HD208

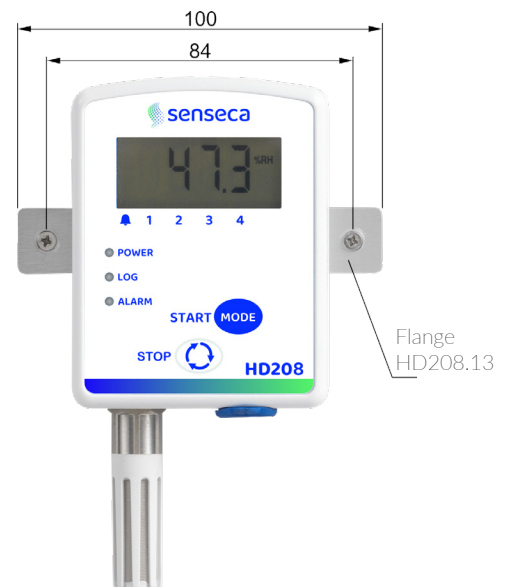
<p><b>Probe type</b> Blank = internal temperature sensor TV = external fixed temperature probe with PBT technopolymer protective cap and stainless steel grid TC = external probe with cable</p> <p><b>Measured quantities</b> N = only temperature 1N = temperature &amp; relative humidity</p> <p><b>LCD</b> Blank = without LCD L = with LCD</p>
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The data logger is supplied with non-rechargeable battery and HD35AP S software, downloadable from the website. The USB cable CP23 and the external probes with cable must be ordered separately.

## Technical specifications

Logging interval	1, 2, 5, 10, 15, 30 s 1, 2, 5, 10, 15, 30, 60 min According to the model: • Temperature: internal sensor, fixed external probe or external sensor with cable; Mean Kinetic Temperature (MKT) calculated. • Relative Humidity. • Dew Point. • Battery Voltage.
Storable quantities	Flash memory with circular management or stop logging when full
Memory	Two alarm thresholds (configurable) for each measured quantity
Alarms	3.6 V not rechargeable lithium-thionyl chloride internal battery (Li-SOCI <sub>2</sub> ), size AA, 2 pole Molex 5264 connector.
Power supply	2 years typical, with logging interval 30 s
Battery life	USB port with mini-USB connector
PC connection	-40...+75 °C 0...100 %RH non condensing
Instrument operating T / RH	ABS (with added UV filters) Probe filter in PBT and stainless steel grid
Materials	Case: 70 x 90 x 30 mm Size of the TV model with fixed probe: 70 x 138 x 30 mm
Dimensions	Protection degree IP 64
Protection degree	Weight 150 g approx.
Weight	Installation Wall mount
Installation	

## Installation



V 1.0