

# Compact Data Logger

## T / RH / Dew Point Monitoring

**Delta OHM**

Member of GHM GROUP

### HD208 series

#### KEEP TRACK OF YOUR MEASUREMENTS

Monitor & record of temperature & humidity  
all along the process

#### MODELS FOR ANY APPLICATION

Only temperature or combined with RH  
Internal sensor or external probe, fixed or with cable

#### LOGGING FUNCTION EXTREMELY VERSATILE

Manual, automatic or delayed  
start and stop of the logging

#### MEASURED DATA DIRECTLY AVAILABLE

PDF report with charts and CSV file  
automatically generated

#### FACTORY CALIBRATED AND READY TO USE

Pre-calibrated sensors  
No further calibration required



### Main Applications

Production facilities  
Storage rooms  
Food process  
Cooling chains

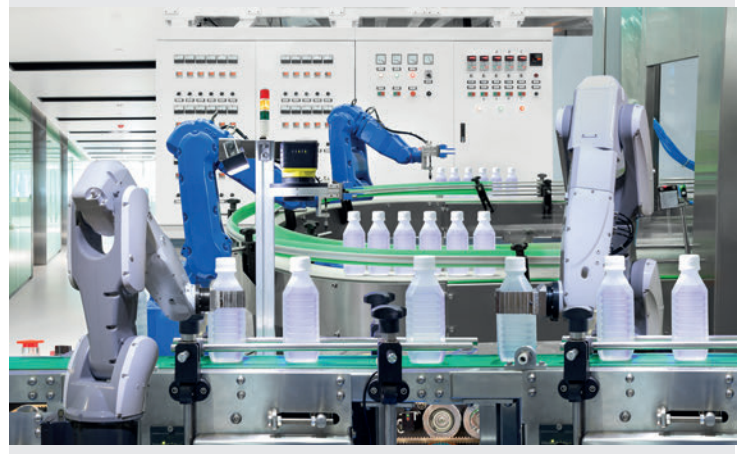
### The ultimate easy to use logger series for a wide range of applications!

The **HD208** is a easy to use logger series for a wide range of applications: perfectly fit for any local measurement where it is important to record and to keep the data. Used in a diversity of segment in the industry: transport, food (HACCP), pharmaceutical warehousing, storage rooms.

**Small, compact design:** internal sensor for temperature or external probe, fixed or with cable, for temperature or temperature and humidity combined.

Additional the loggers can provide Dew Point calculation and even **MKT (Mean Kinetic Temperature)** specifically for food related applications. Free downloadable software for configuration and even real time monitoring and storage of measurement data in a local MySQL database. But reports can also be generated directly as PDF without further need of local software.

For FDA related measurements we provide the option to add software in accordance with **21CFR part 11 recommendations**.



# Technical Specification

## RELATIVE HUMIDITY

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

## TEMPERATURE

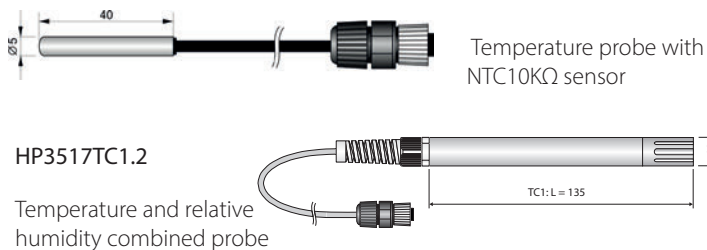
Sensor	NTC10k $\Omega$ @ 25 °C
Measuring range	-40...+105 °C*
Resolution	0.1 °C
Accuracy	$\pm 0.3$ °C in the range 0...+70 °C $\pm 0.4$ °C outside
Long-term stability	0.1 °C / year

\* In the case of internal sensor or external fixed probe, the measuring range is limited by the maximum operating temperature of the instrument.

## Dimensions



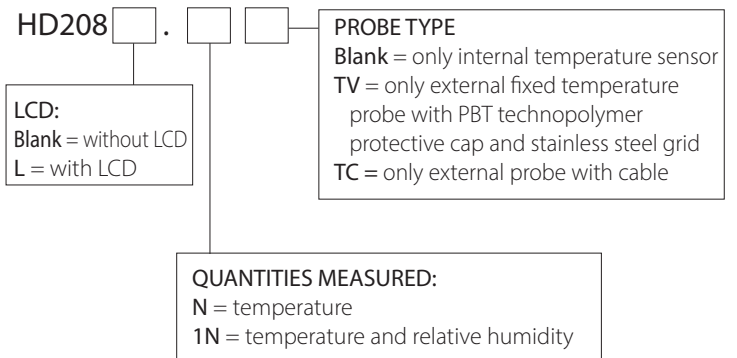
## External probes with cable



## GENERAL SPECIFICATIONS

Logging interval	1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
Storable quantities	According to the model: Temperature - Mean Kinetic Temperature (MKT) - Relative Humidity - Dew Point - Battery Voltage
Memory	Flash memory with circular management or stop logging when full
Alarms	Two alarm thresholds (configurable) for each measured quantity
Power supply	3.6 V not rechargeable lithium-thionyl chloride internal battery (Li-SOCl <sub>2</sub> ), size AA, 2-pole Molex 5264 connector
Battery life	2 years typical, with logging interval 30 s
PC connection	USB port with mini-USB connector
Operating conditions	-40...+75 °C / 0...100 %RH non condensing
Material	ABS (with added UV filters)
Protection Degree	IP 64
Weight	150 g approx.
Installation	Wall mount

## Ordering Codes



## Probes and accessories

TP35N1.3/C	Temperature probe with NTC10K $\Omega$ sensor. AISI 316 stainless steel tube. 4-pole M12 connector. Cable length 3 m.
HP3517TC1.2	Temperature and relative humidity combined probe. NTC10K $\Omega$ @ 25 °C temperature sensor. M12 4-pole connector. PBT technopolymer body. Stem length 135 mm, cable length 2 m.
HD35AP-CFR21	Advanced software option for FDA 21 CFR part 11 recommendations.
CP23	USB connection cable.
HD208.13	Aluminium flange for wall fixing.
HD75 / HD33 / HD11	Saturated solutions for testing the RH probes at 75 %RH, 33 %RH or 11 %RH.

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In order to ensure the quality of our instruments, we are constantly re-evaluating our products. Improvements can imply changes in specification; we advise you to always check our website for the newest version of our documentation.

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