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
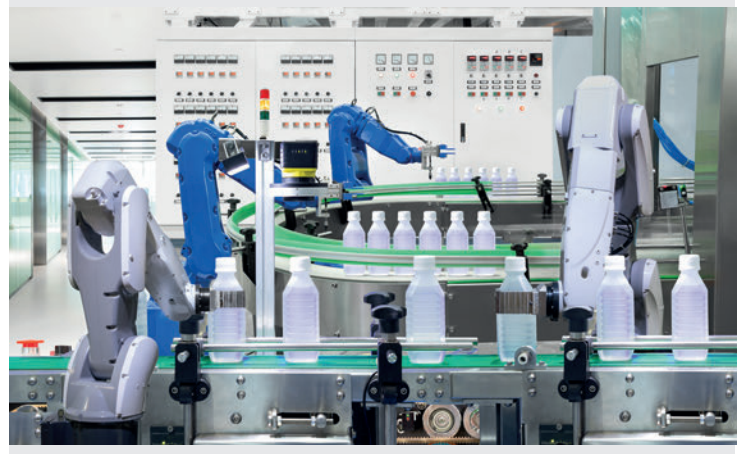Storage rooms
Food process
Cooling chains

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

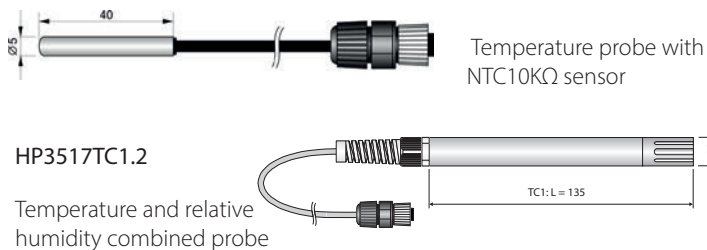|	
Sensor	Capacitive
Measuring range	0…100% RH
Resolution	0.1% RH
Accuracy	± 1.5% RH (0…85% RH) / ± 2.5 %RH (85…100 %RH) @ T=15…35 °C ± (2 + 1.5% measure)% @ T=remaining range
Sensor operating temperature	-40…+80 °C
Response time	T_{90} < 20 s (air speed 2 m/s, without filter)
Temperature drift	±2% over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

TEMPERATURE

Sensor	NTC10kΩ @ 25 °C
Measuring range	-40…+105 °C*
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

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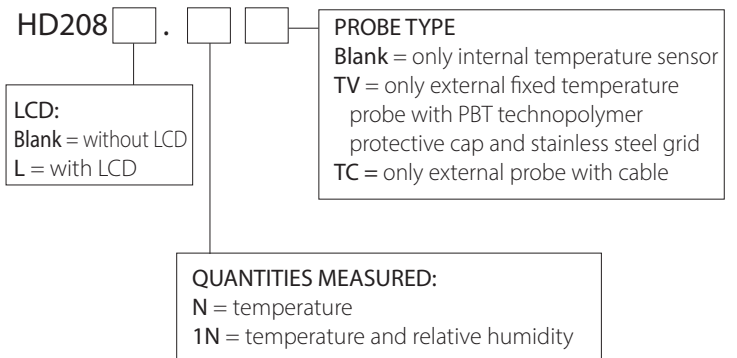
Dimensions

70 mm
138 mm
90 mm
Depth = 30 mm

External probes with cable

TP35N1.3/C

Temperature probe with NTC10KΩ sensor

HP3517TC1.2

Temperature and relative humidity combined probe

TC1: L = 135

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$_2$), 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

HD208☐.☐☐

LCD:
Blank = without LCD
L = with LCD

QUANTITIES MEASURED:
N = temperature
1N = temperature and relative humidity

PROBE TYPE
Blank = only internal temperature sensor
TV = only external fixed temperature probe with PBT technopolymer protective cap and stainless steel grid
TC = only external probe with cable

Probes and accessories

TP35N1.3/C	Temperature probe with NTC10KΩ sensor. AISI 316 stainless steel tube. 4-pole M12 connector. Cable length 3 m.
HP3517TC1.2	Temperature and relative humidity combined probe. NTC10KΩ @ 25 °C temperature sensor. M12 4-pole connector. PBT technopolymer body. Stem length135 mm, cable length 2 m.
HD35AP-CFR21	Advaced 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.

Member of GHM GROUP

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.