

# 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

#### WIDE RANGE OF MODELS FOR ANY APPLICATION

1 or 2 channel  
Only temperature or combined with RH  
Internal or external sensors

#### 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 sensors for temperature or humidity and temperature combined. One or two external sensor types.

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

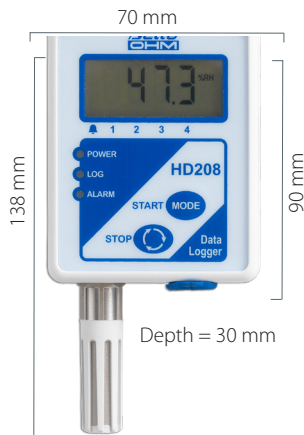
Sensor	Capacitive
Measuring range	0...100%RH
Resolution	0.1%RH
Accuracy	$\pm 1.5\%RH$ (0...85%RH) / $\pm 2.5\%RH$ (85...100%RH) @ T=15...35 °C $\pm (2 + 1.5\% \text{ measure})\%$ @ T=remaining range
Sensor operating temperature	-40...+80 °C
Response time	T <sub>90</sub> < 20 s (air speed 2 m/s, without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

### TEMPERATURE

Sensor	NTC10kΩ @ 25 °C
Measuring range	-40...+105 °C*
Resolution	0.1 °C
Accuracy	$\pm 0.3$ °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



**TP35N1...** Temperature probe with NTC10KΩ sensor.

**HP3517...** Temperature and relative humidity combined probe.



### 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

HD208

**LCD:**  
Blank = without LCD  
L = with LCD

#### PROBE TYPE

**Blank** = only internal temperature sensor  
**TC** = only external probe with cable  
**TS** = only external fixed temperature probe with stainless steel tube  
**TV** = only external fixed temperature probe with PBT technopolymer protective cap and stainless steel grid  
**TCI** = external probe with cable + internal temperature sensor

#### QUANTITIES MEASURED:

**N** = temperature  
**1N** = temperature and relative humidity

### Accessories

**HP3517...**

Temperature and relative humidity combined probe. M12 4-pole connector. PBT technopolymer body. Available stem lengths: 135 mm or 335 mm. Available cable lengths: 2, 5 or 10 m.

**TP35N1.xx/C**

Temperature probe with NTC10KΩ sensor. AISI 316 stainless steel tube. 4-pole M12 connector. Cable length 3, 5 or 10 m.

**HD35AP-CFR21**

Advanced software option for FDA 21 CFR part 11 recommendations

**CP23**

USB connection cable

**HD208.13**

Aluminium flange for fixing the instrument to the wall.