## HL-20D





## **Advantages**

- Highest accuracy at 0.8 %rh and 0.3 °C and outstanding long-term stability
- · 20'000 data point memory with date & time stamps
- Free evaluation and configuration software HW5

## **Applications**

- Logistics
- · Production & storage
- Display and test applications in buildings and museums





## **Technical Information**

Measurement range         0100 %           ±1.3 %rh         ±0.8 %rh           ±0.8 %rh         ±1.3 %rh           Repeatability         0.3 %rh           Response time         Typical 3           Long-term stability         < 1 %rh /           Temperature	C HYGROMER® IN-1 Grh (non-condensing) @ 010 %rh @ 1060 %rh @ 60100 %rh min. (Depends on air flow) year  D (IEC 751 Class A)
Measurement range  0100 %  ±1.3 %rh ±0.8 %rh ±1.3 %rh Repeatability 0.3 %rh Response time Typical 3 Long-term stability  7 temperature  Measurement method Measurement range Accuracy at 23 °C  ±0.3 °C	@ 010 %rh @ 1060 %rh @ 60100 %rh min. (Depends on air flow) year
Accuracy at 23 °C ±0.8 %rh ±1.3 %rh  Repeatability 0.3 %rh  Response time Typical 3  Long-term stability <1 %rh /  Temperature  Measurement method PT100 RT  Measurement range 050 °C  Accuracy at 23 °C ±0.3 °C	@ 1060 %rh @ 60100 %rh min. (Depends on air flow) year
Response time Typical 3 Long-term stability < 1 %rh / Temperature  Measurement method PT100 RT  Measurement range 050 °C  Accuracy at 23 °C ±0.3 °C	year
Long-term stability < 1 %rh / Temperature  Measurement method PT100 RT  Measurement range 050 °C  Accuracy at 23 °C ±0.3 °C	year
Temperature  Measurement method PT100 RT  Measurement range 050 °C  Accuracy at 23 °C ±0.3 °C	
Measurement method PT100 RT Measurement range 050 °C Accuracy at 23 °C ±0.3 °C	D (IEC 751 Class A)
Measurement range 050 °C Accuracy at 23 °C ±0.3 °C	D (IEC 751 Class A)
Accuracy at 23 °C ±0.3 °C	-
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Repeatability 0.05 °C	
Response time Typical 10	0 min. (depends on air flow)
Long-term stability < 0.1 °C /	year /
Dew point	
	ation (from %rh and °C) frost point (user configurable
Logging function	
Logging modes memor	itop (recording stops when ry is full) oldest data is dumped to make or latest data
Logging interval Min 5 sec	Up to 1 hour in 5 sec. increments
LED indicator • 5 sec. (	green flash when recording data red flash for out-of-limit value or problem
General specifications	
Device Type Humidity internal s	r-temperature data logger with sensor(s)
Battery type 3 x AA (1.	

Battery life time	Depends on log interval and other settings. Examples based on a 30-minute log interval: Models with LC display and display sleep function set to 1 minute: 13 months
Start-up time	1.9 s (typical)
Data refresh rate	1.7 s (typical)
Storage & recording specifications	
Recording capacity	20'000 value pairs
Recorded parameter(s)	Relative humidity and temperature
Record media	Internal EEPROM non volatile, not removeable
Service & data interface specifications	
Interface type	UART (universal Asynchronous Receiver Transmitter)
Max. service cable length	5 m (16.4 ft)
Display & housing specifications	
Display	LC, 1 or 2 decimals resolution, blacklight, alarm und low battery indication
Housing material	ABS
IP protection	IP 40
Dimensions	130 x 72 x 32 mm (5.1 x 2.8 x 1.3")
Weight	About 210 g (7.4 oz)
Order code	
HL-20D	HL-20D logger
HL-20D-SET1	HL-20D logger and service cable AC3006
Delivery package	
HL-20D	HL-20D Instruction Manual Factory certificate Screw with dowel for wall mounting 3 x AA Battery, packed with equipment and reverse polarity protected

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