

BENEFITS

- 3 types available:
 - HL-1D: Humidity and temperature
 - BL-1D: Process pressure, dew point, humidity and temperature
- TL-1D: Temperature, high storage capacity: 32,000 lines
- · Free evaluation and configuration software HW4-lite
- FDA 21 CFR Part 11 / GAMP 5-compliant HW4 software
- Certified to EN 12830

APPLICATIONS



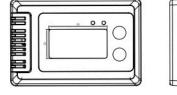
- Pharmaceuticals
- Pharmacies











TECHNICAL INFORMATION

Humidity measurement	
Measurement method	ROTRONIC HYGROMER® IN-1
Accuracy	±2 %rh @ 23 °C ±5 K (1090 %rh) ±5 %rh others
Resolution	0.1 %rh
Measurement range	0100 %rh (non-condensing)
Temperature	
Measurement method	NTC
Accuracy	±0.3 K @ -3070 °C / ±0.5 K others
Resolution	0.1 °C
Measurement range	-3070 °C
Pressure	
Measurement method	Bosch BMP280
Accuracy	±3hPa @ 065 °C / ±5hPa others
Resolution	1 hPa
Measurement range	3001100 hPa
Dew point	
Measurement method	Calculation (from %rh and °C)
Calculation method	WMO Standard
Logging interval	Storage capacity reached after
30 sec.	11 days 2 hours
5 min.	111 days
30 min.	1 year 301 days
45 min.	2 years 270 days
60 min.	> 3 years

6	0 min.	> 3 years		
D	Delivery package			
•	Battery, CR2			
•	Short instruction manual			
•	Function and calibration certificate			

General specifications			
Logging interval	30 s24 h		
Storage capacity	32,000 lines		
Function	MIN / MAX / AVG		
Display	LCD, 2 lines		
Display refresh rate	5 sec. (standard) (in logging mode same as the logging interval)		
LED indicators	2 LEDs Right LED flashes green when logging data, left LED flashes red when limits reached or low battery		
Communication	USB-Mini port		
Software	HW4 V3.4.1 or later (BL-1D: V3.9 or later) included		
Application range	-3070 °C 0100 %rh (non-condensing)		
Battery	1 x CR2		
Battery life	1 year (1 h logging interval, room temperature)		
IP protection class	IP67		
Weight	85 g		
Dimensions	90 x 60 x 23 mm		
FDA/GMP compatibility	FDA 21 CFR Part 11 / GAMP 5-compliant HW4 software		
Standards	EN 12830		
Accessories	Mini USB cable AC0003 (contained in xL-1D-SET)		

MEASUREMENT SOLUTIONS A PST BRAND

ProcessSensing.com

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