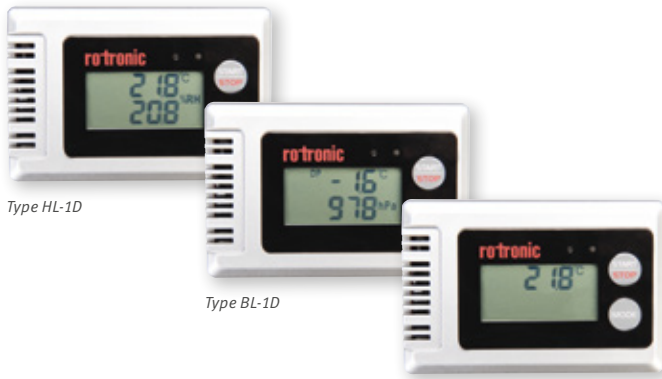


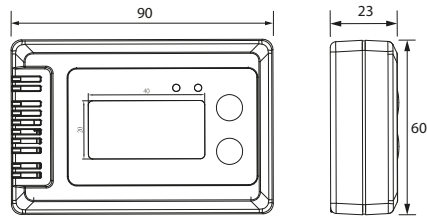
HL-1D / BL-1D / TL-1D



Type HL-1D

Type BL-1D

Type TL-1D



BENEFITS

- 3 types available:
 - HL-1D:** Humidity and temperature
 - BL-1D:** Process pressure, dew point, humidity and temperature
 - TL-1D:** Temperature, high storage capacity: 64,000 lines
- Free evaluation and configuration software HW4-lite
- FDA 21 CFR Part 11 / GAMP 5-compliant HW4 software
- Certified to EN 12830

APPLICATIONS

- Logistics
- Pharmaceuticals
- Pharmacies



TECHNICAL INFORMATION

Humidity measurement	
Measurement method	ROTRONIC HYGROMER® IN-1
Accuracy 23 °C ±5 °C	±3.0 %RH
Resolution	0.1 %RH
Measurement range	0...100 %RH (non-condensing)
Temperature	
Measurement method	NTC
Accuracy 23 °C ±5 °C	±0.3 °C
Resolution	0.1 °C
Measurement range	-30...70 °C
Pressure	
Measurement method	Bosch BMP280
Accuracy 23 °C ±5 °C	±3 hPa
Resolution	1 hPa
Measurement range	300...1100 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
Delivery package	
<ul style="list-style-type: none"> • Battery, CR2 • Short instruction manual • Function and calibration certificate 	

General specifications	
Logging interval	30 s...24 h
Storage capacity	64,000 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	-30...70 °C 0...100 %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)

Subject to technical change without notice. Printing and other errors reserved.

040E/2019-08

Temp | Humidity | Pressure | Vacuum | Data Loggers | Calibrators | Gas Detectors | Pharma / HVAC Solutions | Projects

Instrukart Holdings

India Toll Free : 1800-121-0506 | Ph : +91(40)40262020 | Mob : +91 8886550506

Email : cs@instrukart.com | Web : www.instrukart.com

#18, Street-1A, Czech Colony, Sanath Nagar, Hyderabad-500018, INDIA.

<https://www.youtube.com/instrukartholdings>



INSTRUKART

YOUR WORLDWIDE INSTRUMENT PARTNER