

HDT-200/220/250/300 Temperature/Humidity/Dew Point USB Data Loggers

Measure and store over 16,000 temperature and 16,000 relative humidity readings over -35°C to +80°C (-31°F to +176°F) and 0 to 100%RH measurement ranges.

- HDT-200: Temperature Data Logger (EL-USB-1)
- HDT-220: Temperature Data Logger with LCD (EL-USB-1-LCD)
- HDT-250: Temperature/Humidity/Dew Point Data Logger (EL-USB-2)
- HDT-300: Temperature/Humidity/Dew Point Data Logger with LCD (EL-USB-2-LCD)

All models are supplied with a long-life replaceable lithium battery which can typically allow logging for 1 year (depending on logging rate, ambient temperature and use of alarm LEDs). Status is indicated by flashing red and green (also orange on the HDT-200/220) LEDs. Each logger is protected against moisture to IP67 standard when the supplied protective cap is fitted. A rugged metal case (HDT-200-CASE) is also available for the HDT-200 data logger only. Ideal for harsh environments, the case provides additional waterproof protection to IP67/NEMA-4X.

The HDT-220 and HDT-300 models feature a high contrast 2½ digit LCD that can show a variety of information at the touch of a button: cycle between the current, maximum and minimum stored temperatures on the HDT-220; cycle between the current, maximum and minimum stored values for temperature and humidity on the HDT-300.

Easily configure each data logger by plugging it into a PC's USB port and running the free EasyLog USB* software. Configuration options include: logger name, measurement unit (°C or °F), logging rate, high/low humidity and temperature alarm levels and start date/time. Logged data (temperature, relative humidity and dew point) can be downloaded via the software and then graphed, printed or exported to other applications.

- -35°C to +80°C (-31°F to +176°F) measurement range
- 0 to 100%RH measurement range (applicable models)
- High contrast, two and a half digit LCD (applicable models)
- Programmable alarm thresholds
- Status indication via red and green LEDs
- Dew point indication via control software (applicable models)
- Replaceable battery supplied
- Link to free configuration software supplied
- Environmental protection to IP67 (when cap fitted)
- Supplied with wall clips



Example LEDs (HDT-300 shown)



HDT-200



HDT-200-CASE



HDT-220



HDT-250



HDT-300

Also available
HDT-BATTERY
 Replacement non-rechargeable
 3.6V ½ AA size lithium battery

Technical Details		Applicable Model(s)	
Temperature	Measurement Range	All	-35°C to +80°C (-31°F to +176°F)
	Internal Resolution	All	0.5°C (1°F) (0.5°C/0.5°F for HDT-220)
	Accuracy (overall error)	HDT-200, HDT-220	±0.5°C typical
	Long Term Stability	HDT-250, HDT-300	±0.55°C (±1.04°F) typical (5 to 60°C)
Relative Humidity	Measurement Range	HDT-250, HDT-300	0 to 100%RH
	Internal Resolution	HDT-250, HDT-300	0.5%RH
	Accuracy (overall error)	HDT-250, HDT-300	±2.25%RH typical (20 to 80%RH)
Dew Point	Long Term Stability	HDT-250, HDT-300	< 0.25%RH / year
	Accuracy (overall error)	HDT-250, HDT-300	±1.7°C typical (-35 to 80°C, 40 to 100%RH)
Logging Rate		All	User selectable between 10 sec and 12 hours
Operating Temperature Range		All	-35°C to +80°C (-31°F to +176°F)
Readings		HDT-200	16,382 temperature
		HDT-220	16,378 temperature
		HDT-250	16,382 temperature, 16,382 relative humidity
		HDT-300	16,382 temperature, 16,382 relative humidity
Dimensions		HDT-200	99mm x 25mm x 23mm
		HDT-220	120mm x 25mm x 22mm
		HDT-250	108mm x 25mm x 22mm
	HDT-300	126mm x 25mm x 22mm	
Battery		All	3.6V ½ AA lithium battery (replaceable)

order code	Lascar code	EL-USB-1	EL-USB-CASE	EL-USB-1-LCD	EL-USB-2	EL-USB-2-LCD
	Thermosense code	HDT-200	HDT-200-CASE	HDT-220	HDT-250	HDT-300

* EasyLog software is downloadable for free via a supplied website link. Please visit our website for latest software compatibility information.