

## 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.

### Available Models:

- 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, available for download via the provided website link. 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)
- Detachable wall clip caps (HDT-200 / 250), separate wall clip (HDT-220 / 300)



HDT-200



HDT-200-CASE



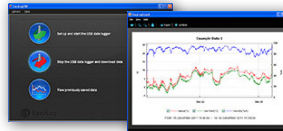
HDT-220



HDT-250



HDT-300



EasyLog \* EasyLog software is compatible with 32-bit and 64-bit versions of Microsoft Windows 7, 8 and 10

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) Typical
	Accuracy (overall error)	HDT-200	±1°C (±2°F) Typical
		HDT-220	±0.5°C (±1°F) Typical, ±1.5°C (±3°F) Max
Repeatability	HDT-250, HDT-300	±0.5°C (±1°F) Typical, ±2°C (±4°F) Max	
	HDT-250, HDT-300	±0.1°C (±0.2°F) Typical	
Relative Humidity	Measurement Range	HDT-250, HDT-300	0 to 100%RH
	Internal Resolution	HDT-250, HDT-300	0.5%RH Typical
	Accuracy (overall error)	HDT-250, HDT-300	±3.0%RH Typical, ±5.0%RH Max
	Repeatability (short term)	HDT-250, HDT-300	±0.1%RH Typical
Dew Point	Long Term Stability	HDT-250, HDT-300	0.5%RH/year Typical
	Accuracy (overall error)	HDT-250, HDT-300	±1.1°C (±2°F) Typical
Logging Rate	All	10s, 1m, 5m, 30m, 1hr, 6hr, 12hr	
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	16,379 temperature, 16,379 relative humidity
Dimensions		HDT-200	98mm (L) x 26mm (W) x 26.8 (H)
		HDT-220	119.5mm (L) x 25.3mm (W) x 22.1mm (H)
		HDT-250	103mm (L) x 26.4mm (W) x 26.6mm (H)
		HDT-300	126mm (L) x 25.3mm (W) x 22.1mm (H)
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