IDL01

Temperature & Humidity Data Logger

Product Features

- *Records temperature and relative humidity*
- *All Stainless Steel 316 construction*
- *Programmable start time and duration*
- *Easily export data to Excel spreadsheets*
- *Encrypted electronic reports available with optional software*
- *21 CFR part 11 compliant with optional software*

Description

Intempco's IDL01 is a combined temperature and humidity data logger. This rugged and easy to use logger can record up to 32,000 temperature and humidity measurements. Its integrated real time clock ensures that all measurements are date and time stamped. Thanks to its long lasting lithium battery, the IDL01 has a 2-year autonomy when set at a one minute sampling rate. In addition, information is stored in non-volatile memory, which ensures the integrity of the data in the event of a discharged or mal-functioning battery. This stand alone unit is ideal anywhere critical validation or mapping is required.

Data download between the data logger and a computer is done via the optional high speed communication module and software. The included software allows the configuration and data download in ASCII format.

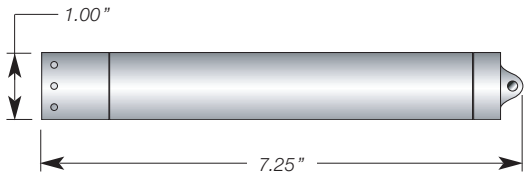
The optional advanced licenced software allows the data logger measurements to be encrypted electronically to meet 21 CFR part 11 compliance. This software can support up to 30 loggers per project and can generate standardized reports and custom graphs.

Application / Process Notes

- *Critical validation applications*
- *Ideal for mapping storage rooms, cold rooms, warehouses…*
- *Food preparation and processing*
- *HVAC and environmental studies*

Ordering Information :

Data Logger Part Number : **IDL01**



Basic communication-software kit : ***IDL01 PKIT-1***

Included :
- High speed communication module w/cable
- Power adaptor
- Basic software

Advanced communication-software kit : ***IDL01 PKIT-2***

Included :
- High speed communication module w/cable
- Power adaptor
- Advanced licenced software

TECHNICAL SPECIFICATIONS

Electrical Properties

Temperaure Sensor :	RTD, type Pt100
Temperature Range :	-40 °C to 80 °C
Temperature Resolution :	0.1 °C
Temperature Accuracy :	± 0.25 °C over -20 °C to 50 °C
	± 0.5 °C below -20 °C & above 50 °C
Humidity Sensor :	Capacitive thin-film polymer RH sensor
Humidity Range :	0 to 100% RH, non-condensing [1].
Humidity Resolution :	0.1% RH
Humidity Accuracy :	± 2% RH over 10 to 90 % RH at 25 °C
Memory Type :	Non-volatile EEPROM
Data Sample Capacity :	32,000 10-bit samples
Reading Interval :	Selectable from 2 sec. to 12 hours
Calibration :	Digital calibration through software
Battery :	3.6V lithium battery included. 2 years autonomy @ 1 min. sampling rate
Time Accuracy :	±1 minute/month at 20 °C
Computer Interface :	RS232 (19,200 baud) via communication module, sold separately

Mechanical Properties

Dimensions :	1” diameter by 7.25” long
Material :	Stainless Steel 316
Weight :	320 grams
Storage Temp. Range :	-40 °C to 80 °C
Operating Temp. Range :	-40 °C to 80 °C

[1]. Extended exposure to equal or more than 90% RH causes a reversible shift of 3%RH