#### **FEATURES**

- Dual channel Temp, RH and Dew Point data logger with external probe (supplied with x1 probe)
- -30 to +80°C (-22 to +176°F) and 0 to 100%RH measurement ranges
- Stores over 250,000 readings per channel for temperature and humidity
- Logging rates between 10 seconds and 1 hour
- On screen menu and graphing to start, stop, review and restart the logger in the field
- Triggered logging mode to start recording data once a user defined level is met
- User-programmable audible alarm thresholds with highly visible confidence/alarm LEDs
- Supplied with EasyLog software for Windows

This standalone data logger measures and stores over 250,000 temperature and humidity readings over a -30 to +80°C (-22 to +176°F) and 0 to 100%RH range at a resolution of 0.1°C (0.2°F) and 0.1%RH.

The user can easily set up the logger and view downloaded data by plugging the data logger into a PC's USB port and using the EasyLog USB software. Data can then be graphed, printed and exported to other applications.

The data logger features a high contrast dot-matrix LCD and three buttons to navigate through an on-screen menu. This menu provides the user with access to real-time trend analysis, data summaries and the ability to start, stop and restart the data logger without the need to connect the data logger to the host-PC. Users can reset the maximum / minimum reading using the on-screen menu; this introduces an 'event marker' into the data which can later be viewed in the graphing software ('Mark Events' option) and the data file after download.

The data logger is supplied complete with two lithium metal batteries, which can typically allow logging for up to 1 year. It can also be powered from USB.

Temperature	Measurement Range	-30°C to 80°C (-22°F to 176°F)	EL-GFX-SP-2	Additiona to accomr
	Internal Resolution	0.1°C (0.2°F)		
	Accuracy (logger error)	± 0.3°C (0.6°F) typical	EL-GFX-SP-2+	second ch Higher Ac
Relative Humidity	Measurement Range	0 to 100%RH		Probe
	Internal Resolution	0.1%RH	INCLUDED IN THE	
	Accuracy (logger error)	± 2.05%RH typical (20 to 80%RH)		
	Long Time Stability	0.5%RH / year	EL-GFX-D2	Data Lo
Dew Point	Accuracy (overall error)	± 1.1°C typical (±2.0°F)	EL-GFX-SP-2	1 X T/H Probe
Logging Rate		Between 10 seconds and 1 hour	x2 BAT 3V6 1/2AA	Batterie
Battery Life*		<b>1 year</b> 2 x ½ AA 3.6V	-	
Dimensions of logger		101 x 48.5 x 30.5mm (3.98 x 1.91 x 1.20")	CABLE USB A-MICRO B	cable
Probe Dimensions		37 x 12 x 8mm (1.5 x 0.5 x 0.3")	EL-GFX WALL BRACKET	Magneti mountir bracket
Cable Length		2000mm (79")		

\* At 25°C and 10 minute logging rate with no alarm LEDs or sounder and minimal LCD use.

#### EL-GFX-SP-2+ (Available at Additional Charge)

Temperature Resolution	0.01°C (0.02°F)	
Temperature Accuracy	±0.2°C (±0.4°F) typical	
Humidity Accuracy	±1.8%RH	

### ACCESSORIES

Ch1 Probe1N Min 23.1 °C

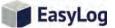
14 Jul 2817

to accommodate second channel	è
	9
GFX-SP-2+ Higher Accuracy	
Probe	

EL-GFX-D2	Data Logger
EL-GFX-SP-2	1 X T/H Smart Probe
x2 BAT 3V6 1/2AA	Batteries
CABLE USB A-MICRO B	Micro USB cable
EL-GFX WALL BRACKET	Magnetic mounting bracket







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EasyLog



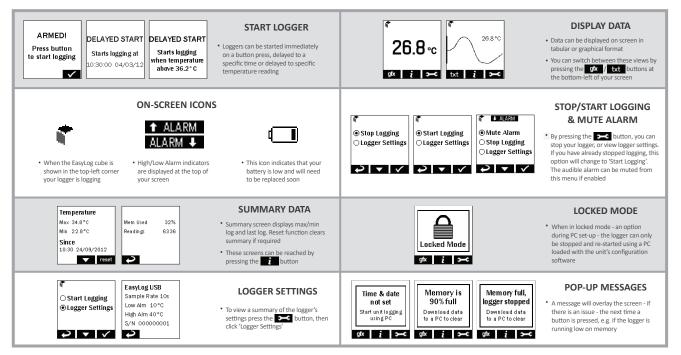
Lascar's EasyLog USB control software is available to download. Easy to install and use, the control software runs under Windows™ 7/8/10 (32 & 64bit). The software is used to set-up the data logger as well as download, graph and export data to Excel. Each stored logging session is saved as a separate file.

The software allows the following parameters to be configured:

- Logger name
- Measurement parameter (°C or °F)
- Logging rate (customisable between 10 seconds and 1 hour)
- High and low temperature alarms on each channel
- Immediate, delayed, triggered and push-to-start logging
- Disable or enable LEDs and sounder with delayed activation
- Display off, on for 30 seconds after button press, or permanently on



#### MENU BUTTON FUNCTIONS AND LCD SCREEN INDICATION



Please note that screens may vary slightly depending on model.



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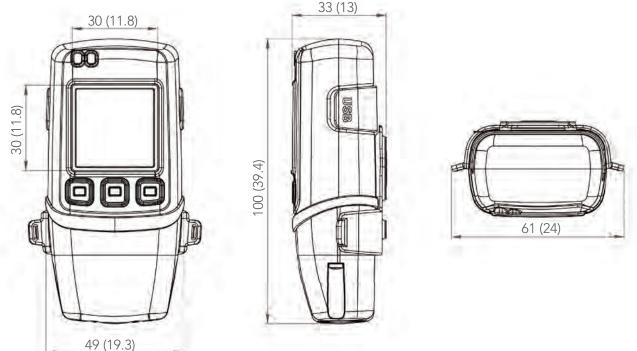
EasyLog

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#### DIMENSIONS

All dimensions in mm (inches)



#### **BATTERY INFORMATION**

We recommend that you replace the batteries every 4 months, or prior to logging critical data.

#### Replacement

The EL-GFX-D2 does not lose its stored readings when the batteries are discharged or when the batteries are replaced; however, the data logging process will be stopped. If the batteries are changed within a 2 minute window the EL-GFX-D2 will retain its settings (internal clock and logging mode). This will allow logging to be restarted without additional connection to a PC via USB.

Only use 2 x 3.6V ½AA lithium batteries. Do not mix battery types and do not mix new and old batteries. Before replacing the batteries, unplug the EL-GFX-D2 from the PC.

#### Passivation

If left unused for extended periods of time, the Lithium batteries used in the EasyLog range of data loggers naturally form a nonconductive internal layer, preventing them from self-discharge and effectively increasing their shelf life. When first installed in the data logger, this may cause a momentary drop in the battery voltage (the Transient Minimum Voltage) as the internal layer is broken down, resulting in the data logger resetting. Inserting the batteries in the data logger and leaving it connected to a PC for about 30 seconds will remove this layer. After this, remove and re-install the batteries to reset the data logger. Overall battery life will not be affected.

#### WARNING

Handle lithium batteries carefully, observe warnings on battery casing. Dispose of in accordance with local regulations.





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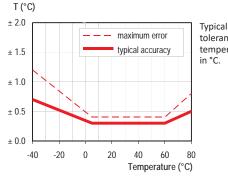
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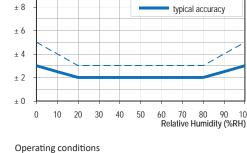


### **SENSOR ACCURACY & INFORMATION**

TH probe = Sensirion, SHT21 accuracy graph (EL-GFX-SP-2)



Typical and maximal tolerance for temperature sensor

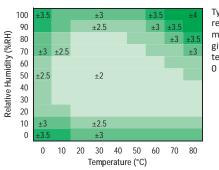


Typical and maximal tolerance at 25°C for relative humidity.

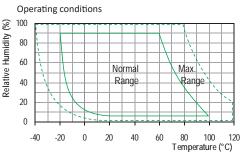
100

maximum error

- ---

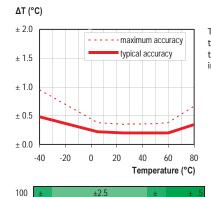


Typical accuracy of relative humidity measurements given in %RH for temperatures 0 to 80°C.



Long term exposure to humidity levels outside of the 'normal' range may temporarily offset **RH** measurements (±3%RH after 60 hours). Once returned to less extreme conditions the device will slowly return towards calibration state.

### TH+ probe = Sensirion, SHT25 accuracy graph (EL-GFX-SP-2+)



±2

+18

±2

+2.5

40 50

Temperature (°C)

60 0 80

±2.5

±2.5

+2.5

0

80

0

60

50

40

0

20

10 ±2.5

0

±2.5 ±2

+2

0 10 20 0

EasyLog

Relative Humidity (%RH)

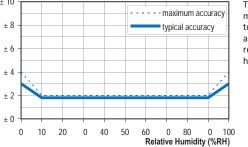
Typical and maximal tolerance for temperature sensor in °C



#### ΔRH (%RH) ± 10

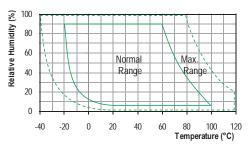
RH (%RH)

± 10



Typical and maximal tolerance at 25°C for relative humidity.

Operating conditions



Long term exposure to humidity levels outside of the 'normal' range may temporarily offset **RH** measurements (±3%RH after 60 hours). Once returned to less extreme conditions the device will slowly return towards calibration state



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