



Environmental Sensor
Ei1020 & Ei1025
Installation Manual

Read and retain carefully for as long as the product is being used. It contains vital information on the installation of this product. This manual should be regarded as part of the product.

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Introduction

The Ei1020 and Ei1025 are Environmental Sensors for indoor use. They measure CO2 levels (Ei1025 only), temperature and humidity. They are wireless and powered by a non-replaceable lithium battery. Any data collected by the sensors is uploaded via the SmartLINK Gateway to a portal where the information is displayed.

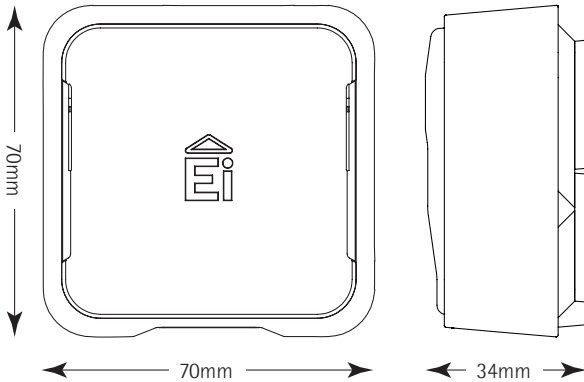
The Environmental Sensor must be installed in accordance with the instructions given in this manual.

Any use other than that described in this manual is seen as unintended use.

Please read the manual in full before installing the Environmental Sensor.

Product Overview

Models	Sensor Type
Ei1020	Temperature and Humidity Sensors
Ei1025	Carbon Dioxide, Temperature and Humidity Sensors



Technical Specification

Power supply	3V Lithium Battery (non-replaceable)
RF frequency	868.2MHz band (1% duty cycle)
RF Range	>100 Metres in free air ¹
Receiver category	2
Typical RF power	8.1 dBm
Max RF power	+14 dBm
Data upload	Via the Ei1000G Gateway
Fixings	Supplied with screws, wall plugs and mounting bracket
Operating & Storage Temperature range	-10°C to 40°C
Operating & Storage Humidity range	15% to 95% Relative Humidity ² (non-condensing)
Dimensions	70mm x 70mm x 34mm
Weight	Ei1020: 74g Ei1025: 81g
Approvals	RF performance to EN 300 220-1 in accordance with EN 300 220-2 EMC performance to EN 301 489-1 in accordance with EN 301 489-3 Safety to EN 62368-1

1. Obstructions of any sort will result in a reduction in range from the free space specification. The range may vary depending on installation.
2. Temperature and humidity conditions are for normal operation and storage. Units will function outside these ranges as required by the specific product Standards. Extended exposure to conditions outside these ranges can reduce product life. For advice on prolonged operation outside these ranges consult the manufacturer.

Installation

IMPORTANT: A SmartLINK Gateway must be present and fully operational in the dwelling.

IMPORTANT: To install the Environmental Sensor, you must have access to that Gateway in the SmartLINK app.

Location

The sensors can be installed in any room. However, some of the information the sensors collect is room specific as detailed in the table below:

Ei1020	Ei1025	Notes
Allergens Risks	Allergens Risks	Sensor must be installed in Living Room
Cold Home Risk	Cold Home Risk	Sensor must be installed in Living Room or Bedroom
Damp & Mould Risk	Damp & Mould Risk	
Excess Heat Risk	Excess Heat Risk	Sensor must be installed in Living Room, Kitchen, Hallway or Bedroom
Heat Loss Risk	Heat Loss Risk	
	Abandonment Risk	
	Indoor Air Quality Risk	
	Ventilation Risk	

Ensure when installing the Environmental Sensors, that the location selected is appropriate to the information sought.

The sensors are designed to be wall/ceiling mounted:

- At approximately 1.4m from the floor level (for wall mounting)
- At least 300mm from any walls or corners where there is dead air.
- At least 300mm from any obstructions (eg. light fitting, decorative object, furniture, curtains, etc...)
- in free space.

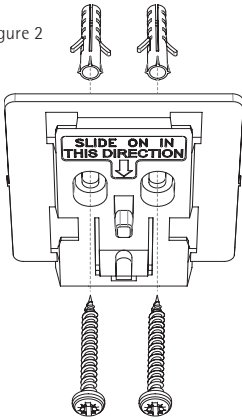
Do **NOT** install:

- Next to or directly above sources of Heat (such as cookers, heaters, etc...).
- Next to or directly above air conditioning vents, windows, wall vents, etc...
- In areas where it may be exposed to water splashes, dripping or condensation (e.g. sink, above an electric kettle, etc...).
- In direct sunlight.

Mounting

WARNING: to prevent injury, this device must be securely attached to the wall or ceiling in accordance with the installation instructions.

Figure 2



Remove the mounting bracket from the packaging.

Place the mounting bracket exactly where you want to mount the sensor. With a pencil, mark the location of the two screw holes.

Taking care to avoid any electrical wiring, drill holes using a 5.0mm drill bit through the centre of the marked locations. Push the plastic screw anchors provided into the drilled holes. Screw the mounting bracket to the wall/ceiling (see figure 2).

IMPORTANT: Make sure the mounting bracket is positioned so that the text is at the top.

Adding the Environmental Sensor to the Gateway System

Open your SmartLINK App available to download from the Google Play or iTunes app store and simply follow the steps in the SmartLINK App.

RF Communication

Ei Electronics radio communication systems are very reliable and are tested to high standards. However, due to their low transmitting power and limited range (required by regulatory bodies) there are some limitations to be considered.

Receivers may be blocked by radio signals occurring on or near their operating frequencies.

The numbers of walls, ceilings and metal objects in the signal path can also reduce the strength of the signal.

If you get an error and the Environmental Sensor does not register with the Gateway, try a different location. If the problem persists, please contact us at the nearest address at the end of this manual.

Guarantee

Ei Electronics guarantees this device for five years from the date of purchase against any defects that are due to faulty materials or workmanship.

This guarantee only applies to normal conditions of use and service and does not include damage resulting from accident, neglect, misuse, unauthorised dismantling, or contamination howsoever caused. This guarantee excludes incidental and consequential damage.

This guarantee does not apply to any product that has been modified in any way by a third party or has been fitted with a third-party element.

Do not interfere with this device or attempt to tamper with it. This will invalidate the guarantee and may result in malfunction.

This guarantee is in addition to your statutory rights as a consumer.

If this device should become defective within the guarantee period, then contact us.

If you are advised to return your Environmental Sensor to us, please ensure to separate it from the mounting bracket, place it in a padded box, with the proof of purchase and a note stating the nature of the fault.



Hereby, Ei Electronics declares that these Ei1020 / Ei1025 Sensors are in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The Declaration of Conformity may be consulted at

www.eielectronics.com/compliance

The crossed out wheellie bin symbol that is on your product indicates that this product should not be disposed of via the normal household waste stream. Proper disposal will prevent possible harm to the environment or to human health. When disposing of this product please separate it from other waste streams to ensure that it can be recycled in an environmentally sound manner. For more details on collection and proper disposal, please contact your local government office or the retailer where you purchased this product.



Hereby, Ei Electronics declares that these Ei1020 / Ei1025 Sensors are in compliance with the essential requirements of the Radio Equipment Regulations 2017. The Declaration of Conformity may be consulted at

www.eielectronics.com/compliance

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