EcoLeak ECO-SEN-JB

Sensor Junction Box

INSTALLATION OPERATION INSTRUCTIONS

aquilar

leak detection solutions

ECO-SEN-JB

EcoLeak Sensor Junction Box

Please read these instructions carefully and keep them in a safe place (preferably close to the unit) for future reference. These instructions must be followed carefully to ensure proper operation.

A. ECO-SEN-JB DESCRIPTION

This sensor junction box kit is for use with the 2-core bulk EcoLeak jumper cable when extending the pre-fitted lead cables on the probes. For use with all the EcoLeak alarm panels when connecting non EcoLeak probes and sensors that don't have a factory fitted 82KΩ resistor.

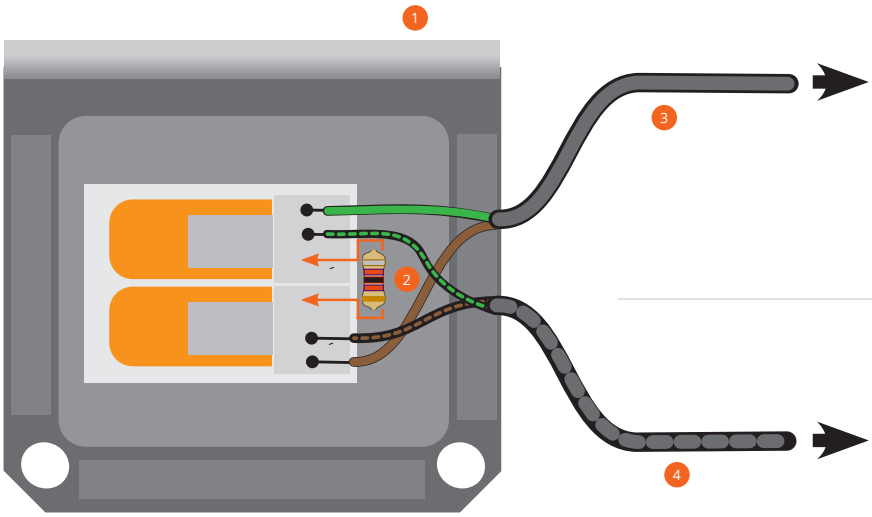
The IP68 watertight junction box is pre-gel filled and has three flexible membranes for cable entry.

Small compact and robust enclosure that is halogen free and UV resistant. Dimensions 41x28x19mm (LxWxH).

The kit contains 1x junction box, 1x Wago connector block and 1x 82KΩ resistor.

IMPORTANT; Once the gel box is snapped shut it is difficult to open it again, please make sure that all cables and the resistor is in place before closing the box. The junction box requires to be completeley shut to achieve the desired IP 68 rating.

B. CONNECTIONS



Example of some of the AquiTron sensors that can be used with the ECO-SEN-JB

AT-DTP
Drip tray probe

AT-TDWS
Tundish Probe

AT-600A
Screw in immersion probe

ECO-24
24 Zone panel

OR

ECO-6
6 Zone panel

OR

ECO-1
1 Zone panel

1. Eco-Sen-JB - Juncition Box.
2. 82KΩ resistor included in the kit.
3. 2 Core from a non EcoLeak sensing device. **
4. 2 Core from an EcoLeak panel.

**** A non ECO device is a sensor that does not have an 82KΩ termination embedded within the sensor.**

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The ECO-SEN-JB is designed to facilitate the termination and connection of a 2-core cable from an EcoLeak panel with a 2-core cable from a non EcoLeak water-sensing probe, using a WAGO connector. Additionally, an 82KΩ resistor is applied in parallel to the circuit for proper termination.

Procedure:

Panel and Probe Connection:

- Terminate the incoming 2-core cable from the EcoLeak panel by stripping the insulation at the ends and inserting each conductor into separate terminals of the WAGO connector.
- Similarly, prepare the 2-core cable from the water-sensing probe by stripping the insulation and inserting each conductor into the corresponding terminals of the same WAGO connector.

Resistor Installation:

- The circuit is terminated with an 82KΩ resistor placed in parallel. This is achieved by inserting each leg of the resistor into the respective sides of the WAGO connector, ensuring each resistor leg is connected to the same terminal as the corresponding conductor from both the EcoLeak panel and the probe.

Final Configuration:

Upon completion, each side of the WAGO connector will hold three elements:

- One core from the EcoLeak panel cable.
- One core from the water-sensing probe cable.
- One leg of the 82KΩ resistor.

This parallel resistor configuration ensures proper termination of the circuit and compliance with system specifications i.e “end of line resistor”,

A cable break between the panel and the ECO-SEN-JB will be notified by the panel, however only the cable between the panel and the junction box is monitored for cable break on the EcoLeak panel . The cable between the junction box and the sensing probe is not monitored for cable break.

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