# Water Leak Detector

Point-Connect Sensor Type

EPL-WDS2
User Manual · V1.0
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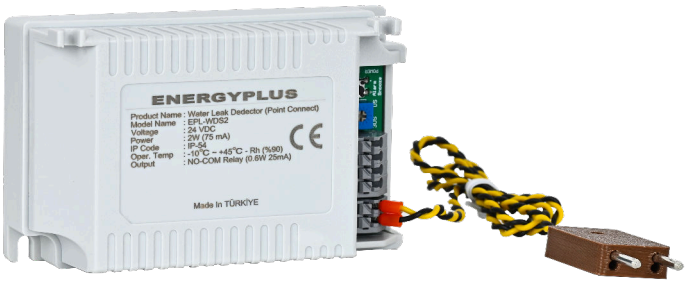

## SAFETY WARNINGS

Read this user manual carefully before operating the device. Follow the installation, electrical connection and commissioning sections step by step. Thereafter the owner/user must keep this manual in a known and visible place for the service life of the product.

- ⚠ Use the product indoors only and within the stated environmental conditions.
- ⚠ The operating voltage of the product is stated on its label. Do not supply the product from any source outside this value.
- ⚠ Do not touch the supply terminals of the product with bare hands.
- ⚠ All service and repair work may be carried out only by Energyplus technical service. No other person should intervene in the product.
- ⚠ Ensure that the system is properly earthed so that the product operates correctly.
- ⚠ Store the product in a dry environment; otherwise a fault may occur.

Use of the product contrary to the conditions stated above may cause fire, serious personal injury, or damage to the product or to the structure in which it is installed. Energyplus Teknoloji accepts no liability for such situations caused by the user.

## SYMBOLS

| SYMBOL DESCRIPTIONS | |
|---|---|
| ! | Used for important points in the following sections. |
| ⚡ | Used for warnings relating to voltage. |
| ⎓ | Indicates that the supply voltage of the product is DC. |
| CE | Indicates that the product complies with the relevant EU directives. |
| ♻ | The product must not be treated as normal household waste; it must be handed over to a collection point for the recycling of electronic equipment. |

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# 1. DESCRIPTION

The EPL-WDS2 is a point-type water leak detector that identifies leaks at an early stage in indoor areas, protecting the building and its electrical equipment from water damage. The unit detects the presence of water on the floor through two point-type sensors and signals a building management system, PLC or alarm panel via its dry-contact relay output. An adjustable delay prevents false alarms caused by momentary wetting.

## Key Features

- Two independent sensor inputs (S1, S2) for two-point monitoring from a single unit
- Alarm delay adjustable between 0 and 30 seconds
- NO-COM dry contact relay output — compatible with PLC, BMS and alarm panels
- Alarm Snooze button
- LED indicators for supply and output status
- IP-54 ingress protection
- Plug-in terminals for fast, error-free wiring

## 1.1 Package Contents

- 1x EPL-WDS2 Water Leak Detector
- 1 Point-Type Water Sensor (cable length: 50cm)
- 2 Mounting screw and wall plug

* For special orders, package contents may vary depending on the project or customer request.




Figure 1.1 – EPL-WDS2 general view



Figure 1.2 – EPL-WDS2 general view

## 2. TECHNICAL SPECIFICATIONS

| GENERAL | |
|---|---|
| Model | EPL-WDS2 |
| Product Name | Water Leak Detector (Point Connect) |
| Country of Origin | Türkiye |
| Conformity | CE |

| ELECTRICAL RATINGS | |
|---|---|
| Supply Voltage | 24 VDC |
| Power Consumption | 0.6 W / 25 mA |
| Relay Output | NO-COM dry contact |
| Contact Rating | 120VA/30W (1 A) - 240VA/48W (2 A) |

| TERMINAL CONNECTIONS | |
|---|---|
| S1 | Point sensor input 1 |
| S2 | Point sensor input 2 |
| 24V / 0V | Power supply input (24 VDC) |
| COM | Relay common |
| NO | Relay normally open contact |
| Conductor Cross-Section | 2 $mm^2$ |

| ENVIRONMENTAL CONDITIONS | |
|---|---|
| Operating Temperature | -10 °C _ +45 °C |
| Relative Humidity | ≤ 90% RH (non-condensing) |
| Ingress Protection | IP-54 |

| PHYSICAL SPECIFICATIONS | |
|---|---|
| Dimensions (W x D x H) | 62 x 103 x 67 mm |
| Weight | 200 g |
| Enclosure Material | Device, Catalog, Screw x2, plug x2, S Cable |
| Mounting Type | Wall Mount |

## 3. PRODUCT COMPONENTS

| INDICATORS AND ADJUSTMENT ELEMENTS | |
|---|---|
| POWER (D1) LED | Lights when the unit is powered. If it is off, check the supply and the fuse. |
| OUTPUT (D4) LED | Lights when water is detected and the relay has energised. |
| Delay Trimmer | Sets the time before the alarm activates, between 0 and 30 seconds. Turning clockwise increases the delay. |
| Alarm Snooze Button | Silences an active alarm temporarily. If water is still present, the unit returns to the alarm state. |

## 4. WIRING DIAGRAM

Terminal layout from left to right: **S1 · S2 · 24V · 24V · COM · NO**

| TERMINAL CONNECTIONS | |
|---|---|
| S1 | Point-type water sensor 1 |
| S2 | Point-type water sensor 2 |
| 24V / 0V | 24 VDC power supply input |
| COM | Relay common – to automation system |
| NO | Relay normally open contact – to automation system |

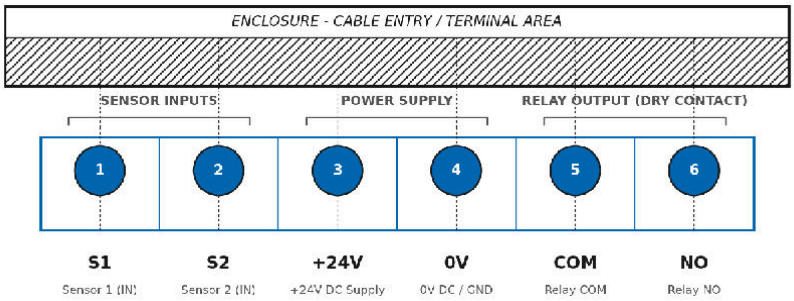


Figure 4.1 – Wiring Diagram

## 5. INSTALLATION

1. Disconnect the supply and confirm that the system is not energised.
2. Fix the EPL-WDS2 in the area to be monitored, at a height unaffected by flooding, using the screws provided with the device.
3. Place the point-type sensors at the lowest point where water will first collect, in full contact with the floor.
4. Connect the sensor cables to terminals S1 and S2.
5. Connect the 24 VDC supply to the 24V terminals, observing polarity.
6. Connect the relay output (COM–NO) to the building management system, PLC or alarm panel.
7. Apply power and confirm that the POWER LED lights.
8. Test the system by briefly touching the sensor tips with a damp cloth; the OUTPUT LED must light.

## 6. INSTALLATION WARNINGS

⚠ Installation and maintenance must be carried out only by qualified technical personnel, with the unit disconnected from the supply.

⚠ The unit is rated IP-54 and must not be exposed to direct water jets or submersion.

⚠ The sensors must be in full contact with the floor; a suspended sensor cannot detect a leak.

⚠ The relay contact rating (48 W / 2 A) must not be exceeded. Use an interposing relay for higher loads.

⚠ Do not route the supply cables in the same conduit as power lines; this may cause interference and false alarms.

⚠ The ventilation openings of the unit must not be obstructed.

## 7. DIMENSIONS

Dimensions (W x D x H): 62 x 103 x 37 mm · Weight: 200 g

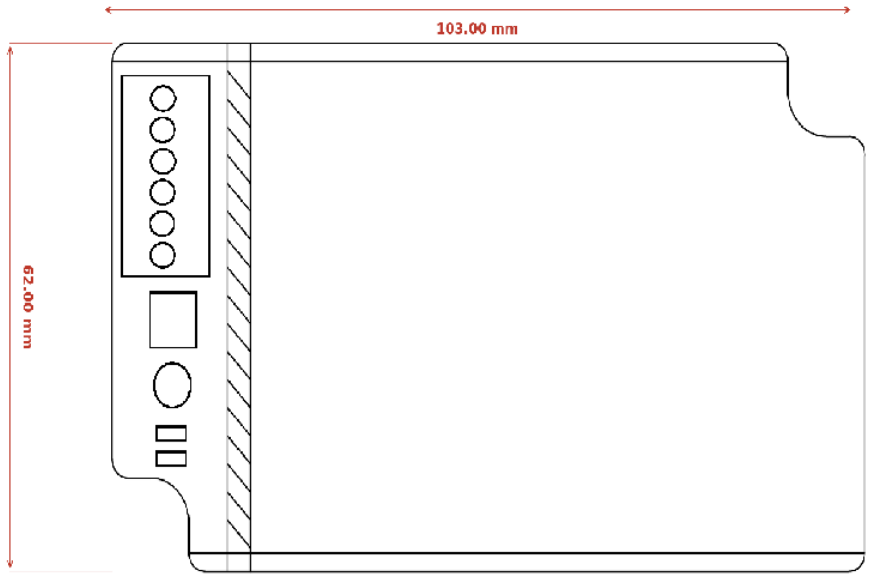


Figure 7.1

**Energyplus® Teknoloji A.Ş.**
Oruçreis Mah. Tekstilkent Cad. T-10 Blok No: 315 Esenler / Türkiye
+90 212 909 98 10
https://www.energyplusstore.com info@energyplusstore.com