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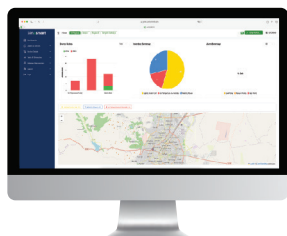
ZS-WM401
Irrigation Module

ZS-IRC401
Irrigation Controller

The Zenopix LoRaWAN irrigation module is a 9V Lo-RaWAN irrigation module that provides periodic irrigation of the soil depending on soil moisture for IoT applications in agriculture.

The irrigation module automatically irrigates by measuring soil temperature and moisture. LoRa and Bluetooth provide remote control and configuration. A soil sensor and water meter enable efficient irrigation and water consumption monitoring.

Shooting Area	800 m[1]
Controller Feature	4x Latch Solenoid Control Module
Battery	6xAA
Frequencies	EU433 – KR920 – US915 / EU868 – AS923 – AU915
Connections	LoRaWAN", "Bluetooth[2]
Monitoring	Web and Mobile-Based Remote Monitoring
Dimension	(L × W × H): 154 × 67 × 60 mm

1. The range may vary depending on the gateway antenna gain and geographic conditions.
2. Bluetooth is offered as an optional feature based on preference.

You can manage your irrigation via our internet management platform at zenosmart.com or via your own servers.

Installation

Once the battery is plugged in, the irrigation module connects to the nearest LoRaWAN gateway and sends data to the IoT server. Operating temperature should be between -20°C and 60°C.

Usage

The module is 100% waterproof (IP67 rated) and offers easy operation with AA batteries. It offers a battery life of up to 2-5 years when used with proper protection. It also provides a LoRaWAN wireless range of up to 800 meters below the ground.

Order code	WT	1	L	01	1	A	B	4	1	1
Body type and size										
Customized box (SF215)		1								
Communication type										
LoRaWAN			L							
Nb-IoT			N							
Bluetooth			B							
Zigbee			Z							
Hardware version (1~n)					1					
Supply voltage type										
110-220VAC						1				
24VDC						2				
Battery Operated						3				
LoRaWAN frequency										
Not available							X			
LoRaWAN EU 868							A			
LoRaWAN AU 915							B			
LoRaWAN US 915							C			
LoRaWAN AS 923-1							D			
LoRaWAN AS 923-2							P			
LoRaWAN AS 923-3							Q			
LoRaWAN AS 923-4							R			
LoRaWAN 868 Multiregion (configurable via software)							T			
LoRaWAN 915 Multiregion (configurable via software)							U			
Additional bluetooth option										
Not available								X		
Bluetooth for quick conffiguration and OTA								B		
Number of Output (Station)									4	
Soil Sensor										
Not available										X
Soil temperature abd humidity sensor										1
Pulse transmitter input										
Not available										X
Ppulse transmitter input										1

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Zenosmart intelligently enhances energy efficiency and sustainability with innovative, AI-powered, IoT-based solutions, making life easier.

✉ info@zenosmart.com 🌐 zenosmart.com 📞 +90 312 911 26 46

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Çankaya/Ankara/Türkiye