

WUM Wireless Extension (Pair With All DDTOP Instruments)

Summary

WUM Wireless Extension is a wireless communication expansion module for Dandong TOP Electric's radar level meter, magnetostrictive level meter, magnetic float level meter and other level meter products. It integrates a high-precision AD acquisition chip, a low-power MCU processor and a variety of optional wireless communication methods. With simple installation, you can quickly extend level meter from traditional communication into wireless communication. It has the significant advantages of strong versatility, high sensitivity, easy installation, safe and reliable communication.



Operating Principal

WUM Type Internet of Things Wireless Expansion Module collects the output current signal from the supporting instrument through high-precision AD chip (the current signal is proportional to the measured level value), and then converts the analog current signal into digital signal and sends it to MCU processor. MCU processes and judges the data, then sends the current value or fault information of the instrument to data management platform through wireless chip. This enables the data management platform to monitor the current measured level and instrument status in real time.

Main Technical Parameters

Working Voltage: 24VDC Accuracy: ±0.1% Communication Methods: LoRa/NB-IOT/4G (Optional) IP Rating: IP66 Ambient Temperature: -40°C~+70°C Outline Dimensions: Φ42mm*110mm House Material: Stainless Steel 304 Electrical Interface: M20×1.5 (external thread) or On Request

Technical Parameters Related to Communication Methods

Communicatio n Methods	LoRa	NB-IOT	4G
Operating	470~510mhz	Carrier Frequency	Carrier Frequency
Frequency Band	470*31011112	Band	Band
Network	LoRaWAN Protocol Independent	Base Station	Base Station

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Deployment	Networking	Multiplexing	Multiplexing	
Maximum				
Transmitting	19±1 dBm	23dBm±2.7dB	23dBm±2dB	
Power				
Reception	126 + 1 d Pm (@SE = 12)	<-140dBm	-158dBm	
Sensitivity	-136±1dBm(@SF=12)	<-1400DI11	-1300000	
Communication	5km (Urban Road Condition, Non-	Unrestricted (Base	Unrestricted (Base	
Distance	Wilderness Condition)	Station Coverage	Station Coverage	

Model Selection Table

Model	Code		le	Content
WUM-				Internet of Things Wireless Expansion
VV UIVI-				Module
	LW470AD			LoRa (LoRaWAN Protocol)
	CUNBAD			NB-IOT
	CU4GAD			4G
		-		
			А	Vertical Mounting
			В	Horizontal Mounting
WUM-		-		

Model selection example

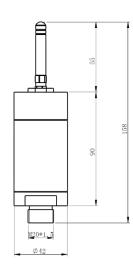
WUM-LW470AD-A

WUM Internet of Things Wireless Expansion Module, LoRa (LoRaWAN Protocol), Vertical Mounting.

Outline and Installation

Outline Dimensions for Type A and Type B





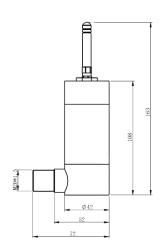


Figure 1 Vertical Mounting (Type A)

Figure 2 Horizontal Mounting (Type B)

Installation

WUM Type Internet of Things Wireless Expansion Module is a matching extension products of level gauge, and has been installed on the matching level gauge in the factory. The module itself will not affect the installation and commissioning of the whole product. Please follow the instruction manual of the matching level gauge for the detailed installation and commissioning. If you need to replace the terminal module, please contact the manufacturer's after-sales personnel.

Ordering Information

- > Type selection according to model selection table
- Model of Level Gauge