

Packing List

In addition to this guide, the package includes the following items:



iXN-2VB3

Resources

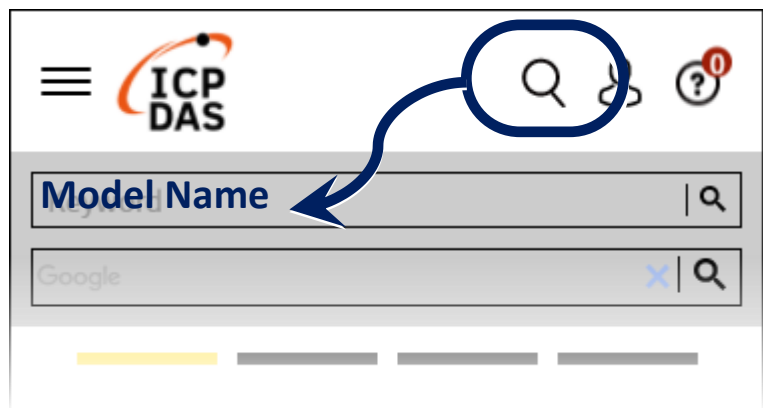
How to search for drivers, manuals and spec information on ICP DAS website.

Technical Support

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1 Modbus Address Mapping Table

iWSN sensor Node ID	The range of address mapping (Hexadecimal)	The range of address mapping (Decimal, Base 0)	The range of address mapping (Decimal, Base 1)
1	0x0141~0x016C	321~364	40322~40365 30322~30365
2	0x0241~0x026C	577~620	40578~40621 30578~30621
...	...	...	...
30	0x1E41~0x1E6C	7745~7788	47746~47789 37746~37789
31	0x1F41~0x1F6C	8001~8044	48002~48045 38002~38045

For example, iWSN-100X-CLE / iWSN-101X-CLE Node ID 1:

PLC address (Base1)	Protocol address (Base0)	Function code	Property	Data type	Description	Remarks
40347 30347	346 (0x015A)	03, 04	R	Uint16	Mean value: X	Measurement range is : 0 to 8 g (Divide the value by 100)
40348 30348	347 (0x015B)	03, 04	R	Uint16	Mean value: Y	
40349 30349	348 (0x015C)	03, 04	R	Uint16	Mean value: Z	
40350 30350	349 (0x015D)	03, 04	R	Uint16	RMS value: X	
40351 30351	350 (0x015E)	03, 04	R	Uint16	RMS value: Y	
40352 30352	351 (0x015F)	03, 04	R	Uint16	RMS value: Z	
40353 30353	352 (0x0160)	03, 04	R	Uint16	MAX value: X	
40354 30354	353 (0x0161)	03, 04	R	Uint16	MAX value: Y	
40355 30355	354 (0x0162)	03, 04	R	Uint16	MAX value: Z	
40356 30356	355 (0x0163)	03, 04	R	Uint16	Composite vector value (Three-axis)	

2 Zero-Initialization setting

1. Connect the iXN-2VB3 to iWSN-100X-CLE or iWSN-101X-CLE. (Hereinafter referred to as the transmitter)
2. Clear the zero-initialization setting first. (set the F1/F2 pin to ON, then turn on the transmitter power)

Item	Name	Instructions	
1	F1 F2 (Clear the zero-initialization setting)	■ : ON □ : OFF	
2	PWR	ON : Power on	

3. Read the register of iWSN-200x, and will get a value not close to zero.

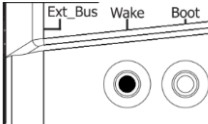
PLC address (Base1)	Protocol address (Base0)	Data	Data type	Description
40257 30257	256 (0x0100)	36	Uint16	Mean value: X
40258 30258	257 (0x0101)	18	Uint16	Mean value: Y
40259 30259	258 (0x0102)	94	Uint16	Mean value: Z

4. iXN-2VB3 is fixed at the location to be measured and kept flat and still.
5. Make the zero-initialization setting. (Set the F1 pin to ON / F2 pin to OFF, then turn on the transmitter power)

Item	Name	Instructions	
1	F1 (zero-initialization setting)	■ : ON □ : OFF	
	F2 (zero-initialization setting)	□ : ON ■ : OFF	

2	PWR	ON : Power on	
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6. After successfully reading the first iWSN-200x register value, press and hold the Wake button for more than 1 second to reset to zero.

Item	Name	Instructions
1	Wake (zero-initialization setting)	

7. Read the iWSN-200x register and confirm that the value is close to zero.

PLC address (Base1)	Protocol address (Base0)	Data	Data type	Description
40257 30257	256 (0x0100)	4	Uint16	Mean value: X
40258 30258	257 (0x0101)	0	Uint16	Mean value: Y
40259 30259	258 (0x0102)	1	Uint16	Mean value: Z

8. Turn off the zero-initialization setting. (set the F1/F2 pin to OFF, then turn off the transmitter power)

Item	Name	Instructions
1	F1 (Turn off the zero-initialization setting)	☐ : ON ☒ : OFF
	F2 (Turn off the zero-initialization setting)	
2	PWR	OFF : Power off

9. Complete the zero setting, please turn on the power again for vibration measurement.

10. If the measurement position is adjusted, please re-execute the zero-initialization procedure to ensure the measurement accuracy.