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Model Code / Additional Spec. Code (No entry if additional spec, code is not specified.)

VM-773B-A

Specification

CONNECTION DEVICE

Number of system measurement poins: Max. 2048 points*1

Number of ZARK X8II HUB registrations: 40 units

Number of connected sensors

Trainibol of Commodical Commodity		
Model code	Product Name	Maximum Number
		of Connected Units
ZN-4A	ZARK Nano battery-powered sensor	32 units
ZIN-4A	(sensor-integrated)	/ X8II HUB : 1 unit

infiSYS RV-200 Series

Number of connected unit for DAQpod infiSYS data acquision unit

Model code	Product Name	Maximum Number of Connected Units
		or connected offits
DP-2000	inficVS data acquisition unit	20 units
AP-2000*2	infiSYS data acquisition unit	20 units

Modbus Client function (Master side : Data request)

Maximum number of connections: 20

Number of system measurement points : Max. 2048 points Protocol : Modbus/TCP(RTU mode) Received data : Various numerical data

Modbus Server function (Slave side : Data return)

: Modbus/TCP(RTU mode)

Number of simultaneous connection: 5

: Measured value and alarm status Transmitted data

- *1 The number of units that can actually be measured and the number of measurement point are limited by system requirements.
- For the size of data used in this system, refer to the data specifications described later. *2 In AP-2000H containing system B, the number of devices is counted as two units.
- * For detailed conditions for the number of connected units, refer to the product specifications of each wireless device.

SHORT TERM / LONG TERM DATA SAVING FEATURES

Real-Time Data (Short Term Data)

Saves the data received from the connected device as real-time data

Saves the data received from the confidence device as real-time data.			
Data collection	ZARK	Trend	1,2,4,6,12,24 hour
interval		Waveform	1,2,4,6,12,24 hour
	DAQpod Data Acquisition	Trend	10 sec
	Unit (BOP)	Waveform	10 sec, 30 sec, 1min, 10 min, 30 min, 1 hour
		Process	1 sec
	Modbus Server device	Process	1 to 600sec
Saving period	10 years*3		

^{*3} Data before the saving period is automatically deleted.

You can change the saving period. (1 month, 2 month, 3 month, 6 month, 1 year, 2 years, 3 years, 5 years, 10 years)

Historical data (Long Term Data)

Statistical calculation (maximum value, minimum value, average value) of data collected from connected devices is performed for the purpose of confirming long-term trends, and the result is saved as historical data.

Calculation	ZARK Nano	Trend	24 hour
cycle		Waveform	24 hour
	DAQpod Data Acquisition	Trend	1 hour
	Unit (BOP)	Waveform	24 hour
		Process	1 hour
	Modbus Server device	Process	1 hour
Saving period	10 years*4		

^{*4} Data before the saving period is automatically deleted.

FUNCTION

Web page display	You can access this software via the corporate LAN by using		
	a web browser.		
Analysis	A trend plot and an analysis graph can be displayed using the		
	data collected from the connected devices.		
Rolling bearing	Diagnosis of rotating machines can be performed.		
diagnosis	DAQpod(BOP) device only		
Alarm	Alarms for the OA vibration value, the process value (such as		
	temperature) and frequency band alarm can be set.		
Export graph data	Data displayed on the graph can be output to a file (CSV).		
E-mail	The state of alarm occurrence can be received by e-mail at		
	the time of alarm occurrence or periodically.		
Report file output Data (trend, spectrum) at the time of alarm occur			
	any point can be output to a file.		
Simplified	Trend confirmation and simplified diagnosis can be		
diagnostic tools	performed using frequencies and amplitudes of the		
output	frequency analysis results.		
Data file output*5	Collected data and alarm settings can be output to a CSV		
	file.		
Modbus/TCP	Measured values and status of infiSYS 3.0 can be output to		
communication	the Modbus Client device.		
(Server)			
Modbus/TCP	Measured values and status output from Modbus server		
communication	devices can be obtained with infiSYS3.0.		
(Client)			
*5 7ARK is not support	*5 ZARK is not supported		

^{*5} ZARK is not supported

∠ WARNING

To use wireless devices in countries and regions around the world, it is necessary to obtain a certification under the radio law of the relevant

The wireless module used in the system can only be used in the country where it has been certified.

If the system is to be used outside Japan, contact the sales office where you purchased the system.

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DISPLAY

Measured value list (wired • wireless)	Displays the current measured values collected from the connected devices in a list format.
Device state list	Displays the information and communication state of the connected devices (Base unit).
Module state list	Displays the information and communication state of the connected devices (sensor).
History of alarms	Displays the alarm occurrence and recovery histories.
History of system	Displays the occurrence and recovery histories of system error (communication error, sensor error).
Report list	Displays a list of report information created at the time of alarm occurrence.

Analysis Graph

Real-time trend	Displays a trend plot of measured values collected from the
	connected devices.
Historical trend	Displays a trend plot of the statistically processed data
	(maximum value, minimum value, and average value) of the
	measured values collected from the connected devices.
Waveform Plot	Displays the vibration waveform collected from the connected
	devices in a graph.
Spectrum	Displays the results of frequency analysis in a spectrum plot.
Waterfall	Displays a graph showing spectrum data in chronological order.

The analysis/diagnosis functions that can be displayed by this software vary depending on the connected device and the type of measurement target.

	Z	ARK Nano	
Analysis graph	Vibration	Vibration	Process
	(Acceleration)	(Velocity)	
Real-time trend	0	0	0
Historical trend	0	0	0
Waveform Plot	O*6		
Spectrum Plot	O*7	_	_
Waterfall Plot	O*7	_	_
Simplified diagnostic tools (Top10	0	_	_
trend)			
Simplified diagnostic tools	0	_	_
(Top10 diagnosis)			
Rolling bearing diagnosis	_		
*C A way of a mental and a mily be displayed from a september measurement naints			

^{*6} A waveform plot can only be displayed from acceleration measurement points.

^{*7} In 920 MHz and ZARK Nano, the spectrum plot and waterfall plot display the Top10 spectrum data.

Analysis graph	DP-2000、AP-2000	
Analysis graph	Vibration(BOP)	Process
Real-time trend	0	0
Historical trend	0	0
Waveform Plot	0	_
Spectrum Plot	0	_
Waterfall Plot	0	_
Simplified diagnostic tools (Top10 trend)		I
Simplified diagnostic tools (Top10 diagnosis)	_	_
Rolling bearing diagnosis	0	_

[:] To display, —: Do not display

Diagnosis Function

Rolling bearing	Displays the cause of the vibration phenomenon and the	
diagnosis	waveform and spectrum at the time of diagnosis.	
	※ DAQpod(BOP) device only.	

Diagnosis possible malfunctions cause :

Rolling bearing diagnosis
Bearing damage
Lubricating Trouble
(Rolling Element Bearing)
Insufficient tightness – Bearing
Unequal stiffness
Unbalance
Vane unbalance
Cooling fin unbalance
Coupling inaccuracy or damage
Misalignment
Seal or rotor rub
Gear inaccuracy
Electrically excited vibration
Insufficient tightness - Casing
Vane Passing Vibration
Di 1 60 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Display of the diagnosis result : A malfunction cause is displayed in order from the high thing of the factor as a result of diagnosis. Requires 2048 or more sampling points.

SOFTWARE SUPPLY

DVD-ROM

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Requirements

SYSTEM REQUIREMENTS

infiSYS View Station*1 (for data collection and monitoring)

0.011	1
CPU	Intel Core i5 or higher
Memory 8GByte or higher	
OS	Windows 10 Pro(64bit) (20H2 or later)*2
	Windows 10 IoT Enterprise 2016 LTSB (64bit)
	Windows 10 IoT Enterprise 2019 LTSC (64bit)
	Windows 10 IoT Enterprise 2021 LTSC (64bit)
	Windows 11 Pro
	Windows 11 IoT Enterprise
	Windows Server 2019 Standard
	Windows Server 2022 Standard
Storage	The required capacity depends on the system configuration
	(connected devices, number of measurement parameters,
	data acquisition conditions) (see supplement)
Graphic	1366 × 768 of higher resolution (recommended 1920 × 1080)
Web browser	Google Chrome、Microsoft Edge(Chromium)
Drive	External or built-in DVD-ROM drive
Network	Ethernet 100 BASE-TX or higher

- *1 A PC installed with this software is called an infiSYS View Station.
- *2 Upgrade Windows10 Pro to 20H2 or later.

 ** To view the simplified diagnostic tool or report file, you also need Microsoft Excel 365 or

User PC (for viewing)

CPU	Intel Core i5 or higher
Memory	8GByte or higher
OS	Windows 10 Pro(64bit) or Windows 11 Pro recommended
Graphic	1366 × 768 or higher resolution (recommended 1920 × 1080)
Web browser	Google Chrome, Microsoft Edge (Chromium)

- X Since installation of dedicated software is not necessary, there are no storage requirements.
- * To view the simplified diagnostic tool or report file, you also need Microsoft Excel 365 or 2019 or later.

Overall	If you want to achieve a prolonged stability and improved reliability of infiSYS View Station, we recommend a server PC or factory automation PC (FAPC). To improve the fault tolerance of storage, RAID configuration storage is recommended.
CPU	Although infiSYS View Station and the CPU of the user PC operate with Intel Core i3, Intel Core i5 or higher is recommended because a high load is applied on the CPU when the view change operation of the waterfall plot is performed.
Memory	Because infiSYS View Station and the memory of the user PC consume approx. 4 GB with the OS and browser running, 8 GB or more memory is recommended.
OS	Windows 10 Home and Windows 11 Home cannot be used for the operating system of infiSYS View Station and user PC
Storage	infiSYS View Station requires approx. 2 GB of storage during installation. The amount of storage used during operation depends on the connected devices and the number of measurement parameters. Approximate amount of the storage used based on expected use conditions is as follows. (The real-time data and the historical data is saved for 10 years.) The report file at the time of alarm occurrence uses approx. 2 MB per file. Considering the space required for backup, it is recommended to allocate storage capacity at least twice as large as the amount used.

Example of HDD usage

Trial calculation based on 10 year of real-time data and 10 years of historical data.

ZARK

Conditions	Amount used
X8II : 1 unit, Nano: 1 unit	7.2GByte
(Trend, waveform: 2048 points, 1 hour)	
X8II : 1 unit, Nano : 32 units	28.8GByte
(Trend, waveform: 2048 points, 1 hour)	

DAQpod infiSYS Data acquision unit (AP-2000, DP-2000)

Conditions	Amount used
DP-2000B: 1 unit, vibration channel: 24ch	97.1GByte
(BOP mode, trend: 10sec, waveform: 2048 points, 1 hour	
AP-2000D: 1 unit、vibration channel: 48ch	194.3GByte
(BOP mode, trend: 10sec, waveform: 2048 points, 1 hour	

Modbus Server device

Conditions	Amount used
Modbus Server, process:100ch	28.4GByte
Trend: 10sec	

- X The specifications and other items indicated herein are subject to change without notice.
- ※ All company and product names in this brochure are trademarks or registered trademarks

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SYSTEM CONFIGURATION

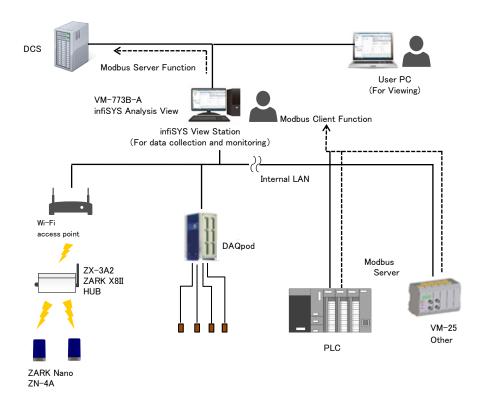


Figure 1 Example of system configuration

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