

# Vibration Monitoring System for Fin Fan

**Funan Field** 



Advance Siam Tech Co., Ltd









**Most Valued** Global Provider of Predictive Maintenance Solution

# **Monitoring Cabinet**









# **Cabinet Layout**

	1 1 1					Item	Code	Description	Brand	Model	Remark
						10	C801	2 Poles, Circuit Breaker	ABB	1	
			- 11					24 Vdc			
		Contraction of Contraction				2	HM01	PanelView 600	AB	PV600	
						3	CM01-14	Vibration Monitor	AB	XM-120	
			11			-		2 Channels, Output 4-20 mA.			
		Contraction of Contraction				-		2 NO+2NCContact,			
			- 11				CH11E 17	DEVICENET Communication	40	X11 100	Education (1) 10
			-11			4	CM15-17	Ditto tem 3	AB	XM-120	Extension Units
			11			3	RIVIU1-U/	Master Relay Module	AB	XM -440	
					1.1			4 Relays, 2 Set DPD1, Max Oursent 2 A			
	-				Lang Lang			Max Current 5 A,			
					54	8	RM08-00	Ditto tem 5	AB	XM-440	Extension Units
			- 11			7	EM01	Ethernet Gatew av Module	AB	XM-500	Extension Units
		208-500					CHART.	DEVICENET to Ethernet	00	700 -000	Extension onits
		100 m 100 m 110						Bridge			
			- 11			8	TB1	Vibration Sensor Terminals	Weidmuller	WDU 1 5/77	
						9	TB2	Digital Output Terminals	Weidmuller	WDU 1.5/ZZ	
			3 ( ) E			10	TB3	Relay Terminals	Weidmuller	WDU 1.5/22	
						11	TB4	Spare Terminals	Weidmuller	WDU 1.5/22	
			311			12		Cable Gland	Crousehind		
						13		Wire Duct			
			311			14		Wiring Cable 16 AWG			
						12-12-1	· · · · · · · · · · · · · · · · · · ·	1.2			
	0			_							
		799mm Chevron Thailand Explor	nim and Fredericies	ROJECT :				DESCRIPTION :	TITLE:		
BADVANCE	STAMUTZCE CO.LTD.	Tower III, SCB Fack Flass	18 Ranchadaptock Rd.	Fin F	an Vib	ration 1	Monitoring		0	erall View a	nd Bill of Material
		Charactal, Sa	ngink 10900, Thrumd		FOR	D OT	-0-				and the second se

## **Junction Box**



#### **Sensor Installation**



### **Surface Preparation Tool**

 Scrub off the machine surface desired to install the sensor on with the spot face tool (Shown as the picture below) attached to the gimlet



## **Mounting Pad Installation**

- Dry the scrubbed surface. Heavy grease, oil and dirt should be wiped away.
- Apply adhesive (LOCTITE 330) amount to the spot face and seat the model SF8 pad with a turning motion.



## **Sensor Installation**

- Fill the adhesive around the sides of the pad to increase shear strength and assist electrical isolation. The working time is 5 minutes but may vary depending on the ambient temperature.
- Do not get epoxy in the sensor mounting surface.

## **Stud Installation**

- Apply the Loctite's thread lock type 242 about 2-3 drops to the tapped hole in the sensor.
- Screw the male to male ¼-28 stud (as shown below) into the sensor and seat with a screwdriver.



### **Sensor Installation**

- Apply the thread lock type 242 to the tapped hole in the mounting pad.
- Torque the sensor with the stud onto the mounting pad to 24 inch-pounds



#### **Vibration Sensor Specification**

#### 9100FM **General Purpose**

#### DYNAMIC

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration Range <sup>1</sup>	50 g peak
Amplitude Nonlinearity	1%
Frequency Response	and the second
±5%	0.6 - 4,000 Hz
±10%	0.4 - 5,000 Hz
±3 dB	0.2 - 10,000 H
Resonance Frequency	20 kHz
Transverse Sensitivity, max.	5% of axial
Temperature Response	see graph

#### ELECTRICAL

<b>Power Requirement</b>			
voltage sourc	e	18 - 28 VDC	
current regula	ating diode <sup>12</sup>	2 - 20 mA	
Electrical Noise, eq	uiv. g, nominal		
Broadband	1 Hz to 10 kHz	50 µg	
Spectral	10 Hz	4.0 µg/VHz	
	100 Hz	0.8 µg/√Hz	
	1,000 Hz	0.4 µg/VHz	
Output Impedance, r	max.	100 Ohms	
<b>Bias Output Voltage</b>	, nominal	8 - 12 VDC	
Grounding		case isolated, internally shielde	id



#### **ENVIRONMENTAL**

Temperature	Range	-54 to	11	21°C	
Shock Limit		5,000	ġ	peak	

#### PHYSICAL

stainless steel
1/4 - 28 tapped hole
MIL-C-5015, 2 pin
signal, power
common



*SENTEK* 

#### Vibration Sensor Specification (Cont.)

#### TYPICAL TEMPERATURE RESPONSE



#### NOTES:

- 1 To minimize the possibility of signal distortion when driving long cables with high vibration signals, 24 to 30 VDC powering is recommended. The higher level constant current source should be used when driving long cables (Please consult Entek Customer Service).
- 2 A maximum current of 6 mA is recommended for operating temperatures in excess of 100 °C.

ACCESSORIES SUPPLIED: 1/4-28 Mounting screw, Calibration data

Factory Mutual App	roved Standards
Division 1	Continuous or Intermittent Hazards
Class 1	Gasses and Vapors
Group A	Acetylene
В	Hydrogen
C	Ethylene
0	Methane
Class 2	Dusts
Group E	Metal Dust
F	Coal Dust
G	Grain Dust
Class 3	Fibers – No subgroups
Temperature Code T4	135 °C (maximum surface temperature)

Ordering Information			
Model	Description	P/N	
9100FM	General purpose accelerometer - 100 mV/g, 0.2-10,000 Hz (3dB), top exit, Mil Spec connector.	43785	

### **Amour Cable**

Two (2) pin socket connector with integral, molded splash proof boot with 7.1 mm (0.28") diameter, SST armored jacket with cable, twisted shielded pair wires. xxx.x = Armor length in meters. yyy.y = Cable length in meters.



### **Overall Display**





# **Alarm Settings**

<u>Cooling Fan Layout</u>

#### Cooling Fan

Cooling Fans No. : 1130, 1131, 1132, 1133, 2160, 2161, 3130, 3131, 3132, 3133, 2170, 2171, 2060, 2061, 2090, 2091, 4180 and 5180 refer to ISO 2372 class 3

 Alert : 7.1 mm/s = 0.28 ips
 Danger : 11.2 mm/s = 0.44 ips

 Cooling Fans No. : 1134, 1135, 1190, 1191, 3190, 3191 and 2175 refer to ISO 2372 Class 4

 Alert : 11.2 mm/s = 0.44 ips
 Cooling Fans No. : 3134 and 3135 was manually alarm set as their structure condition

 Alert : 11.2 mm/s = 0.44 ips
 Danger : 18 mm/s = 0.71 ips

#### Pump

All 6 Pumps No. : 2115, 2120, 2040, 2045, 2080 and 2085 refer to ISO 10816 Part 3, Group3, External Driven on Relatively Flexible Structure

Alert : 7.1 mm/s = 0.28 ips

Danger : 11.2 mm/s = 0.44 ips

# Location







# Example







#### Calibration



### **Rockwell Automation**



## XM Module







## XM-120's Inputs



#### Shaft Displacement

Includes onboard power supply for non-contact eddy current displacement probes.

#### **Casing Vibration**

Includes onboard 4mA excitation for piezoelectric transducers with integrated circuits.





#### <u>Voltage Input</u>

Supports almost any externally powered or self powering voltage output sensor that produces a calibrated linear signal.

Just ONE module for any DYNAMIC measurement...

#### Inputs – 1 Tachometer...



- $\pm 25V$  (50V max. peak to peak)
- 1 to 50,000 events per revolution
- $120k\Omega$  minimum input impedance
- 1 to 1,200,000 RPM (0.0167 to 20,000Hz) speed range
- 500 Hz/sec maximum rate of change



## XM-120's Output

#### Analog

- Two 4-20mA outputs
- Configurable as any of the calculated parameters



#### <u>Relays</u>

- Single onboard relay
- Expandable to five (supports one XM-441 Expansion Relay Module)

Communicates between the Module via the DEVICENET











Color	State	Description
No color	Off	No power applied to the module.
Green	Flashing Red	Module performing power-up self test.
	Flashing	Module operating in Program Mode.
	Solid	Module operating in Run Mode.
Red	Flashing	Application firmware is invalid or not loaded. Download firmware to the module.
		Firmware download is currently in progress.
	Solid	An unrecoverable fault has occurred. The module may need to be repaired or replaced



Network Status Indicator

Color	State	Description
No color	Off	Module is not online.
		Module is autobauding.
		<ul> <li>No power applied to the module, look at Module Status LED.</li> </ul>
Green	Flashing	Module is online (DeviceNet) but no connections are currently established.
	Solid	Module is online with connections currently established.
Red	Flashing	One or more I/O connections are in the timed-out state.
	Solid	Failed communications (duplicate MAC ID or Bus-off).



Channel 1, Channel 2 and Tachometer Status Indicator

Color	State	Description	
No color	Off	<ul> <li>Normal operation within alarm limits on the channel.</li> </ul>	
		<ul> <li>No power applied to the module, look at Module Status LED.</li> </ul>	
Yellow	Solid	An alert level alarm condition exists on the channel (and no transducer fault, tachometer fault, or danger level alarm condition exists).	
	Flashing	(Tach LED only) Tachometer fault (no transducer fault) condition exists on the channel.	
Red	Solid	A danger level alarm condition exists on the channel (and no transducer fault or tachometer fault condition exists).	
	Flashing	A transducer fault condition exists on the channel.	



Solid On-board relay is activated.

**XM-120 Features** 



## **XM-440 Features**

- 4 Integrated Relay (12 Relays Available with XM-441 Expansion Modules)
- All Alarms are able to be configured individual





XM-500 Address Reference

MAC Address : 00-30-11-02-C5-3B IP Address : 192.168.6.83



#### XM-500 IP Configure



#### XM-500 IP Configure

<i>n</i> :	AnyBus-S Ethernet 10/100	
	IP address: 192.168.6.83   Subnet mask: 255.255.0.0   Gateway address: 0.0.0   SMTP server address: 0.0.0   DHCP enabled:	

### **XM Software**



The Interface between all AB Hardware Instruments and all Rockwell's Software



The software to local configure and review all data from only one node of stand alone XM Module via the RS232 Serial Cable



Enterprise Online Configuration Utility

The software to configure and review all data from XM Module(s) via the XM-500 and Online Network

### **XM Software**



Real-time interactive display, analysis and management of data from XM systems



The feature utility in both the EOL Monitor and the Emonitor to harvest and map the data from all XM to the Emonitor's Database



Predictive Maintenance historian, data analysis and reporting system.

Supports multiple data types and sources.





Not connected to an XM module (offline)

Clicking Configure when not connected to an XM module displays the Module dialog so you can select an XM module.

Module	X
Flease select a module:	
	<u>(</u> ОК
XM-120 XM-120 XM-121A XM-121 LF Bynamic M., Eccentric., Absolute Sh., Dynamic M.,	Cancel
9999	
XM-122 gSE Vib XM-123 XM-160 Overal XM-161 Overall Module Aeroderivati Vibration Mo Vibration Mo	
9999	
XM-162 Overal XM-220 Speed XM-320 Position XM-360 Process Vibration Mo Module Module Module	
MM-361 MM-362 Isolated KM-440 Master Universal Tem Temp. Module Relay Module	

XM-120 Dynamic Measurement Module Configura	ation Tool	
File Edit Device Help		
Channel 1 Channel 2 Tachometer Alarm, Relay and 4-20	20 mA Output   Triggered Trend   SU/CD Trend   I/O Data   Module	View Data
Channel name: Channel 1	Signal processing Output data unit:	
Transducer	High pass filter: 1 🗾 Hz	
Enable IEPE power	Sampling mode: Synchronous	
Sensitivity: 200 mv/mils	Internal gear teeth:	
Eng. units:	External gear teeth: 1	
Fault low: -18	Measurement options	
Fault high: -2 Volt	Overall time constant: 1.5	
DC bias time constant: 1 700	Overall damping factor: 1	
1.769 sec	Overall filter:	
Full scale: 2 Volt	Low pass filter: 1000 Hz	
Auto Full Scale	Order of sum harmonics: 4	
	Spectrum/Waveform Band	

XM-120 Dynamic Measurement Module Co	nfiguration Tool	
File Edit Device Help		
Channel 1 Channel 2 Tachometer Alarm, Relay	and 4-20 mA Output   Triggered Tre	end SU/CD Trend I/O Data Module View Data
Identity	DeviceNet	Firmware update
	Node address: 63	Firmware revision:
Vendor ID:		
Device type:	Baud rate: Autobau	Must make sure the script file (*.nvs) loaded is
Product code:		consistent with the device.
Revision:		
Status:		Update Firmware
Serial number:	Apply	
Product name:		
Reset		

Apply the Node Address to the configured module first (Be aware the assigned number was not used by another) Then download all configuration to the module and turn it to RUN Mode

View Channel 1, 2 Data							
Ch1 transducer fault: Ch1 DC gap voltage: Ch1 sum harmonics:	No Fault 1.1143 17.8356	Volt	Ch2 transducer fault: Ch2 DC gap voltage: Ch2 sum harmonics:	No Fault 0.0093 0.0150	Volt	Stop Cancel	
Ch1 band measuremen Status: Band measurement 1: Band measurement 2: Band measurement 3: Band measurement 4:	No Fault 0.0112 17.8352 0.0039 0.0007	ips ips ips ips	Ch2 band measuremen Status: Band measurement 1: Band measurement 2: Band measurement 3: Band measurement 4:	nt 0.0049 0.0160 0.0018 0.0006	ips ips ips ips		
Ch1 Not 1X and Vecto Status: Not 1X value: Speed value: 1X magnitude: 1X phase: 2X magnitude: 2X phase: 3X magnitude:	No Fault 0.0206 3600.0117 17.8336 183.0488 0.0025 148.7435 0.0020	ips RPM ips deg ips deg ips	Ch2 Not 1X and Vector Status: Not 1X value: Speed value: 1X magnitude: 1X phase: 2X magnitude: 3X magnitude:	No Fault 0.0030 3600.0117 0.0150 100.5000 0.0004 59.8754 0.0002	ips RPM ips deg ips deg ips	XM-120 Vibral File XM Spect	ion rum 6 - - 2
						CH1	Lin 5. –

Everything you need to install and configure your XM system – over a serial link







🎬 Enterprise	ise Online Configuration Utility (Unlimited) - blcp1 - [XM	Network View]
물 File Edit	Setup Network Device Tools View Window Help	
🖾 D 🧀	Change Driver 自島膿雌歩般屋合	<b>Q</b> Q
XM Dev	RSLinx Driver Configuration	
+ 🖳 XM Ethe	Preferences	

) <b>*</b>		2 <b>a</b> Q Q	
XM DeviceNet network XM Ethernet network			
	Change Ethernet Driver		
	Det in director		
			OK
	AB_ETH-1	-	Cancel
	Information		
	Attribute	Value	
	Network Type	EtherNet EtherNet	
	Station Number	63	

글 사이 Euremet network 그 옥 RSLinx Driver AB ETH-1 Station Number: 63		
	500 EtherNet/IP Ga	teway Unit 1
01, XM-120_ST BRG 01		
2, XM-120_ST BRG 02		
03, XM-120_ST BRG 03	1.0	Indicates an XM-500 network gateway module, either the Ethernet side or the
04, XM-120_ST BRG 04	57	DeviceNet side of the module
05, XM-120_ST BRG 05	-	Devicence ade of the module
07, XM-120 GEN BRG 07		
08, XM-120 GEN BRG 08		Indicates an XM measurement or relay module
09, XM-120_GEN BRG 09	122	
- 🥶 10, XM-120_GEN BRG 10	-	
11, XM-220_ST Speed & Phase		
12, XM-12E_ST Eccentricity		Indicates an active XM measurement or relay module in communication with the
13, XM-320_ST SHAFT POS A/B		Online Configuration Utility
14, XM-320_ST SHAFT POS C & CASING EXP		Autor Addition and Autor
15, XM-320_ST DIFF EXP		The data and the second s
10, XM-120_DFP-A BRG 02		Indicates an active XM measurement or relay module that is in Program mode
17, XM-120_DI P-A BKG 01		
19. XM-12E BEP-A Eccentricity		
20, XM-320 BFP-A & BFP-B SHAFT POS	-	
21, XM-120_BFP-B BRG 02	3.00	Indicates an XM measurement or relay module that appears in the Online
- 🤤 22, XM-120_BFP-B BRG 01	-	Configuration Utility network configuration, but is not in communication with the
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04, XM-120 Vit 05, XM-120 Vit 06, XM-120 Vit 07, XM-120 Vit 08, XM-120 Vit 09, XM-120 Vit 10, XM-120 Vit 11, XM-120 Vit 12, XM-120 Vit 13, XM-120 Vit 14, XM-120 Vit 15, XM-440 Ma 16, XM-440 Ma 19, XM-440 Ma 20, XM-440 Ma 21, XM-440 Ma 21, XM-440 Ma 21, XM-440 Ma 21, XM-440 Ma	Tachometer name: Transducer Fault low: Fault high: DC bias time constant:	-5         Volt           5         Volt           1.769         sec	Tachometer         Pulses per revolution:         Fault time-out:         Fault time-out:         Auto trigger         Trigger hystersis:         Trigger threshold:         Trigger slope:         Exponential averaging time constant:	0 11 20 0 positive	volt Volt Tott Tott		
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