



VT7S12

Dual Channel Vibration Transmitter

Accurate. Easy. Advanced.

Masibus VT7S12 is an innovative Dual Channel Transmitter indigenously designed for accurate vibration measurement. It excites and reads signal from accelerometer and transmits overall vibration value as current/voltage signal. It measures Vibration in different parameters like Acceleration, Velocity, and Displacement.

Configuration is very user friendly using front keys. It is a low cost high performance vibration monitor in a modular format ideally suited for protection of valuable rotating machines against costly breakdowns including motors, fans, pumps etc.

It employs True-RMS and RMS-Peak measurement techniques, considered best for general machine health. Online vibration monitoring can be made cost-effective by interfacing analog output with control systems like RTU/PLC/DCS. Machine protection can be effectively implemented by alarm/trip facility or by interfacing analog output to remote systems like SCADA/DCS.

Features

- Compact DIN rail mounting
- Digital Display
- Easy configuration using keys & display
- Micro controller based transmitter
- Measuring Parameters: Acceleration, Velocity, Displacement - field configurable
- Transducer/cable health check
- Dual Retransmission output
- Relay for Alarms, Danger, Health

Applications

- Online vibration measurement
- Cooling towers
- Pumps
- Motors
- Gear boxes
- Blowers
- ID/FD/PA Fans
- Air compressors
- Conveyors

Technical Specifications:

Input						
•	Assolatomator					
Input type No of Channels	Accelerometer					
	Two/ One (Optional)					
Display	4-digit, 0.3" seven segment Red LED					
Keys 3 Keys (ENT, SEL, ESC) Measurement Parameters:						
Measurement Parame						
	Measuring Range (Field configurable)	Resolution				
Acceleration	0 to 50.00g (RMS) 0.01g					
Velocity	0 to 50.00mm/sec (RMS) 0.01mm/sec					
Displacement	0 to 1000microns (Pk-Pk) 1 micron					
Sensor bias current	3.87 mA					
Frequency range	10Hz to 1 KHz					
Channel scan time	150 mSec					
Calibration	Through Front Panel					
I/P to Display	±2.0% of Full Scale (20Hz< F < 800Hz)					
Accuracy						
Output Analog Output						
No of Outputs	Two (Output-2 is optional)					
Output types	4-20mA, 0-20mA, 1-5V, 0-5V, 0- (Either Voltage or Current from a					
Load	750Ω Max (for Current) 2000Ω Min (for Voltage)					
Output Accuracy	±0.25% of Full Scale					
Alarm/Trip Output						
Relays	Three - Alarm, Danger, Health					
Rating	2A@230VAC / 30VDC (C, NO, NC)					
Communication						
Interface	RS485					
Protocol	Modbus-RTU					
Baud Rate	9600, 19200					
	,					

	Power Supply				
	Voltage	18 to 36 VDC			
		Or 85 to 265 VAC/125-300VDC (optional)			
	Power Consumption	<10VA			
n ec	Isolation (Withstanding voltage) • Between primary terminals* and secondary terminals**: At least 1500 V AC for 1 minute • Between primary terminals* and grounding terminal: At least 1500 V AC for 1 minute • Between grounding terminal and secondary terminals**: At least 1500 V AC for 1 minute • Between secondary terminals**: At least 1500 V AC for 1 minute • Between secondary terminals**: At least 500 V AC for 1 minute • Primary terminals indicate power terminals and relay output terminals. ** Secondary terminals indicate analog I/O signal and Communication Of Insulation resistance: 20MΩ or more at 500 V DC between power terminals Physical				
	Transmitter	•			
	Mounting	DIN rail			
	Dimension	70(W) x 75(H) x 110(D) mm			
	Weight	240g			
	Wiring	2.5mm ²			
a time)	Enclosure Material	ABS plastic			
	Environmental Transmitter				
	Operating Temperature	0 to 55°C			

Operating Humidity 40 to 95% RH (non-condensing)

G

0-10V

	Ordering code									
Model	No	of Channel	Measurement		Supply		Output type		Option	
VT7S12	1	Single	OR	RMS	Α	85 to 265 VAC/ 125-300VDC	С	4 -20mA	Ν	None
	2	Dual	OP	Peak	В	18 to 36 VDC	D	0 -20mA	1	RS485
			PP	Peak to Peak			Е	1-5V		
					1		F	0-5V		

Compatible Sensor (Optional-On request)

Sensor Mounting	Stud / Pad mounting
Sensor Type	ICP
Sensor Output	100mV/g

Head Office:

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All specifications are subject to change without notice due to continuous improvements. Doc. Ref. VT7S12/R1/0712