

# SENOFEE

ITEM NO: CDT-series



## Vibration/acceleration sensor

Email: [info@senofee.com](mailto:info@senofee.com) / <http://www.senofee.com>

### General Description

CDT-series integrated vibration sensor integrates vibration velocity sensor and precision measuring circuit to form a high-precision vibration measurement system, which converts the effective value of vibration velocity and peak value of vibration displacement into standard 4-20 mA(two wire) current output, and is directly connected with DCS, PLC or other equipment. The product has stable performance and convenient use. It is suitable for cement plant, power plant, steel plant, Fan, steam turbine, coal mill, oxygen generator, generator, bearing vibration measurement Rotating machinery (such as centrifuges, compressors, water pumps and motors. etc It is an ideal choice for factory monitoring equipment with control system.

### Applications



- ★Motor
- ★Water pump
- ★Steam turbine

- ★Energator
- ★Compressor



- ★Fan
- ★Centrifuge

- ★Oxygen machine
- ★Coal mill



### Features

- .strong anti-jamming ability
- .wide frequency response
- .great dynamic characteristics
- .Stainless steel shell
- .Laser welding for sealing
- .Double-layer shielding(isolation)
- .Water-proof, dust-proof, oil resistance
- .Customized pressure range

## Performance

Static characteristics		
	vibration velocity	vibration displacement
Measuring range	0-20mm/s	0-500μm
Amplitude frequency response (±10%)	0.8mA/mm/s	
Maximum lateral sensitivity	<5%	
Amplitude non-linearity	1%FSO	
Output current	4 - 20mA (two wire)	
Output type	Effective value	
Electrical characteristics		
Operating Voltage (Constant current source)	12~30V	
Grounded	Signal insulation	
Insulation resistance	>500MΩ (experimental voltage 500V)	
Environmental characteristics		
Operating temperature	-40~85°C	
Impact limit	±1000g	
Physical characteristics		
Sensitive components	Magnetolectric core	
Shell material	Stainless steel	
Connector	Ws16 two-core connector (A input, power supply positive: B output, meter access terminal)	
Installation method	1/4~28 stud or magnetic base	
Connection cable	2meters standard	
Weight	230g	

### Measuring direction

	Measuring range	Cable specifications	D lead length	Installation thread	Explosion-proof requirements
A1:vibration velocity ( mm/s )	B1:0-20mm/s ...	C1. Direct lead C2. Direct lead (With armor) C3. Aviation plug C4. Aviation plug(With armor)	D1.1 meters D2.2 meters D3.3 meters	E1.M10*1.5 E2.M8*1.25 E3.M5*0.8 E4. Magnetic base E5. Special customization	F1. Explosion-proof  F2. Non-explosion proof
A2:Vibration Displacement Range(μm)	B2 : 0-500μm ...				

### Production installation notes:

(1) Installation: Use the bottom screw (1/4-28UNF×1) to install it at the measured point, if the machine is not convenient to open a hole, you can choose Magnetic base installation. Can completely replace and compatible with imported PCB/IMI and other brand products

(2) Wiring: This product adopts loop power supply and two-wire output (two wires are both power and signal wires).It needs to be connected to the PLC or DCS signal input port.

# SENOFEE

ITEM NO: CDT-series

## **Vibration/acceleration sensor**

Email: [info@senofee.com](mailto:info@senofee.com) / <http://www.senofee.com>