

CDT-1T2B Seismic Detection Wave Sensor

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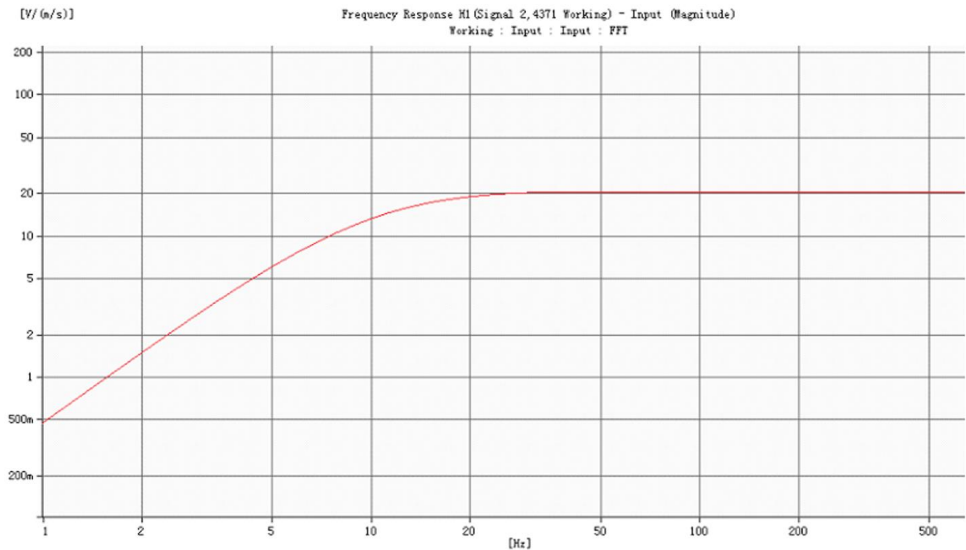
CDT-1T2B seismometer is a new generation of seismometer products launched by our company. The product has advanced design, excellent anti-interference, and the tolerance of each parameter index is controlled at $\pm 2.5\%$. Within, the distortion degree is less than 0.1%, stable performance, with high false frequency, high accuracy, rich and accurate signal acquisition, suitable for all kinds of accurate seismic exploration. It provides guarantee for the quality of seismic data acquisition. All parts are precision machining, the production process is stable

FEATURES

- On-line & real-time measurement
- High accuracy
- Simple operation and high reliability
- Fast response
- Strong in corrosion resistance

SPECIFICATIONS

Item	Technical Specification
Natural Frequency(Hz)	$10 \pm 2.5\%$
(Q)Coil Resistance	395
Open Circuit Damping	0.3
Damping With Calibration -Shunt(1000Ω)	$0.707 \pm 2.5\%$
(v/m/s)Open Circuit Sensitivity	28
(v/m/s)Sensitivity With Calibration -Shunt(1000Q)	$20.1 \pm 2.5\%$
Resistance With Calibration -Shunt(1000Q)	$283 \pm 2.5\%$
(%)Distortion	< 0.1
(Hz)Spurious Frequency	≥ 250
Operating temperature	$-40 - 80^\circ\text{C}$
Durable years	3 years



Communication Protocol (MODBUS)

Transmission mode: MODBUS-RTU, **Baud rate:** 9600bps, **Data bits:** 8, **Stop bit:** 1, **Check bit:** no

Slave address: the factory default is 03H (set according to the need, 01H to F7H)

- **The 03H Function Code Example: Read The PH Value(Data type is floating point)**

Host Scan Order(slave address:0x03)

03 03 00 00 00 01 85E8

Slave Response

03 03 02 03 E8 CRC CRC

seismic wave velocity: 03E8=10000>> 10000/1000=10.0m/s

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ELECTRICAL CONNECTIONS

Connector (cable)	Voltage(0-20mV)	Current(4-20mA)
Red	V+	Power V+
Blue	V-	
Black		Power V-
Yellow		Signal +
Green		Signal -

OUTPUT CHARACTERISTICS

- **Voltage**

Value: 0-20mV

- **RS485**


The protocol needs to be converted to modbus-rtu through the 0-20mV conversion module

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WARRANTY

This product is warranted to be free of defects in materials and construction for a period of 12 months from date of lead time.

Liability is limited to repair or replacement of defective item.

 Complies with applicable CE directives.

Manual subject to change without notice. Version 1.0

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