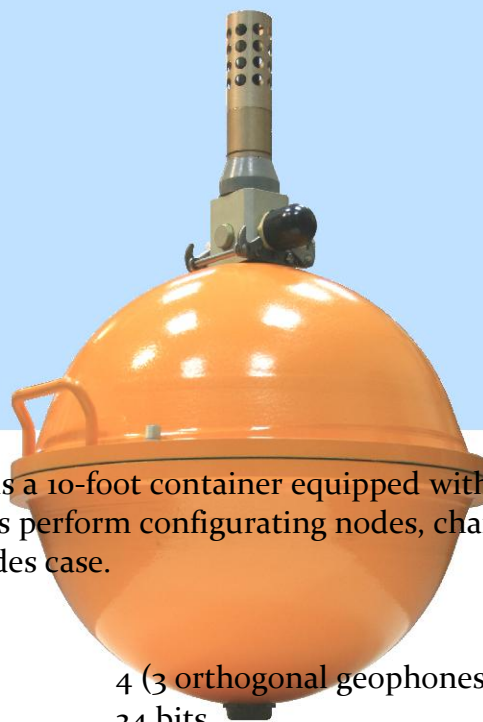


# SDS-50



SDS-50 is a system of Ocean Bottom Nodes. SDS-50 is a 10-foot container equipped with 36 nodes and all necessary equipment. Container equipment allows perform configuring nodes, charging batteries and downloading recorded data without opening nodes case.

## General

- seismic data channels 4 (3 orthogonal geophones, 1 hydrophone)
- ADC resolution 24 bits
- sample rate 0,25 / 0,5 / 1 / 2 / 4 ms
- gain 1 / 2 / 4 / 8 / 16 / 32 / 64
- storage capacity 32 GB
- frequency stability  $5 \cdot 10^{-9}$
- battery life  $\geq 45$  days
- orientation azimuth  $\pm 5^\circ$   
tilt  $\pm 2^\circ$
- full charge time ( $t=15...45^\circ\text{C}$ )  $\leq 24$  hours
- interface (control and data downloading) Ethernet
- operating temperature range  $-10...+50^\circ\text{C}$
- self test internal noise  
internal impulse  
sensor impulse
- hydroacoustic channel  
transmission distance 6000m  
functional command command for release  
node orientation request  
node state request

## Acquisition channels

- input impedance  $> 100$  kOhm
- input noise (depends on sample rate and gain)  $0,08...3$   $\mu\text{V}$
- instantaneous dynamic range (2 ms, gain<sub>1</sub>)  $> 125$  dB
- amplitude mismatch of seismic channels  $< 0,5\%$
- common-mode rejection ratio  $> 80$  dB
- crossfeed  $> 90$  dB

## Physical

- weight in air 22kg
- dimensions diameter 400mm
- operating depth 5000m



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