MOORING · SUBSURFACE BUOY

Signature buoy

Subsurface buoy for Signature250 and Signature500 ADCPs

The Signature buoy is Nortek's tailor-made subsurface buoy for the Signature250 and Signature500 ADCPs. It is built from two identical halves with internal pockets for the instrument and a single or double battery canister, held together by just four bolts. Its cylindrical, slightly conical shape keeps the buoy vertical even in strong currents and wave action, and it contains no magnetic parts that could disturb the ADCP compass.



Ø 480 × 1150 mm
Max. diameter × length

71 kg
Buoyancy in water (buoy alone)

34 kg
Weight in air

100 m
Depth rating

KEY FEATURES

01 **Vertical orientation:** cylindrical, slightly conical body that stays upright in strong currents and waves, vital for good data.

02 **Two identical halves:** internal pockets for the Signature250/500 and a single or double battery canister; no screws needed to hold them.

03 **Fast assembly:** four bolts join the halves: buoy, battery canister and ADCP assembled in **less than ten minutes**.

04 **Non-magnetic:** no magnetic parts, so the Signature compass is not affected.

05 **Mooring:** removable anchor plate at the bottom for easy attachment of the mooring rope; used with a release and mooring line.

APPLICATIONS

- Subsurface ADCP moorings
- Current profiling in deep or exposed sites
- Long-term deployments with external battery canister
- Offshore wind and marine energy site surveys

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SIGNATURE BUOY

Technical specifications

TECHNICAL SPECIFICATIONS	
Compatible ADCPs	Nortek Signature250 and Signature500
Battery canister	single or double Nortek battery canister
Dimensions	length 1150 mm · max. OD 480 mm
Weight in air	34 kg
Buoyancy (buoy alone)	71 kg
Net buoyancy, double canister	63 kg (Signature250) · 68 kg (Signature500)
Depth rating	100 m
Body	polyethylene (PE) skin and PU foam
Hardware	316 stainless steel and POM
Rope loops	Dyneema SK78

Source: Nortek Signature buoy leaflet and Nortek news release (2020). A release and a mooring line are required for deployment.

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