

Specific Depth Sampler

SDS Pump

The SDS Pump is a sampling system which allows sampling from deep wells without purging. A bailer is lowered down the well to the desired depth. As soon as the bailer reaches the water, it fills up. When the bailer reaches the depth of the desired sample, a pump inside the bailer is powered, replacing the stagnant well water with water from the screen portion of the well.

FEATURES

- Extremely durable powder coated steel storage reel with rugged steel frame
- Highly accurate stainless steel Kynar tape marked in engineering units (metric available)
- Long life capacity rechargeable deep cycle sealed lead acid battery. Sufficient for hundreds of samples on one charge
- 1 liter easily replaceable double check valve bailer
- Powerful pump quickly replaces bailer sample
- Easily replaceable pump



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SPECIFICATIONS

Unit

Tape length	300' and 450'
Unit Weight	25.3 and 32.3 lbs
Component weights	
Tape, Reel, and Motor	17.5 and 24.5 lbs
Controller/Power Supply	7.2 lbs (including charger)
Bailer	.6 lb (excluding pump)
Component Dimensions	
Reel & Tape	300': 12" W x 14.5" H x 10.5" D
	450': 12" W x 14.5" H x 10.5" D
Controller/Power Supply	12" W x 4.5" H x 8.25" D

Controller/power supply

Battery operation temperature	-40 - 60° C
Battery charging temperature	-20 - 50° C
Battery Life	5 years or 200 - 1000 discharge cycles

Pump

Pump flow rate	300' Tape	450' Tape
Full Flow	1 gpm	.9 gpm
Reduced Flow	.8 gpm	.7 gpm

Note: These flow rates valid only if standpipe discharge is below the water surface.

Minimum well diameter	1.9 inches
Standpipe lengths available	2' (stackable)
Bailer volume	1 liter

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