

12 Volt DC Sampling Pump

Geotech Geosub 2 Pump & Controller



This stainless steel sampling pump is the most versatile single stage DC pump in the industry. Designed with all stainless steel components, the Geosub 2 allows you to sample with confidence even in the harshest well conditions. The Geosub 2 operates with the Geotech Geosub 2 Controller.

FEATURES

- Most versatile pump in the industry, sample from depths to 200 ft. (61m)
- Low flow sampling rates to 10 mL/min
- User enabled dry-run protection
- Easy to decontaminate
- Optional Drop Tube Assembly for greater depth
- Field replaceable motor lead kits available
- Portable reel systems or dedicated well systems available to meet your needs (optional)

SPECIFICATIONS

PUMP

Electric:

Full Load Rating $\frac{2}{3}$ HP
Maximum Amp Draw 10 amps DC
Overload Incorporated into Geosub 2 Controller

Discharge Port Connection: $\frac{1}{4}$ " female NPT (includes $\frac{3}{8}$ " barb)

Operating Conditions:

Min. Ambient Fluid Temperature 34°F (1°C)
Max. Ambient Fluid Temperature 176°F (80°C)

Wetted Parts: 316 Stainless Steel, PEEK, HDPE

Dimensions & Weight (Pump & Motor):

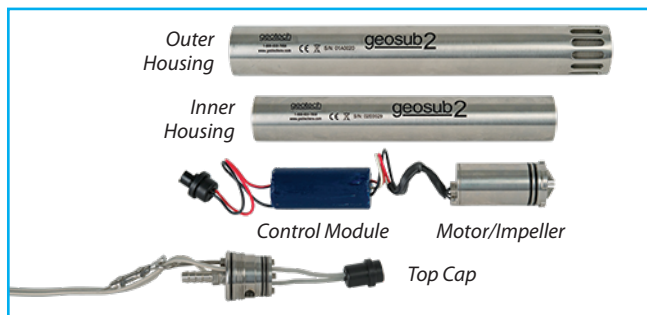
Dimensions of Pump 13.2" L x 1.75" OD (34cm L x 4.5cm OD)
Net Weight of Pump w/o Lead 4 lbs. (1.8 kg)

CABLE

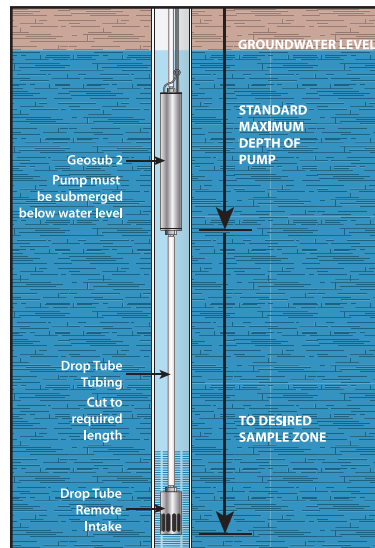
Material: Two 12 gauge conductors with HDPE jacket, and integrated safety cable

Weight with Geo Reel & Safety Cable:

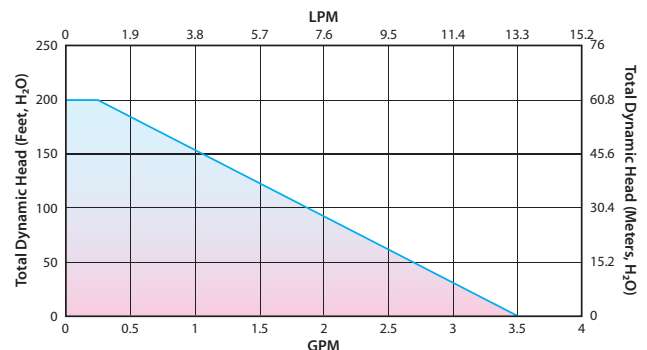
100' (30.5 m) of 12 AWG & Safety Cable 18.3 lbs. (8.3 kg)
150' (45 m) of 12 AWG & Safety Cable 21.6 lbs. (9.8 kg)
200' (61 m) of 12 AWG & Safety Cable 24.9 lbs. (11.3 kg)



Geosub 2 with optional Geo Reel



Optional Geosub 2 Drop Tube Installation



Geosub 2 Performance



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The Geosub 2 Controller is designed specifically for use with Geotech's Geosub 2 Pump. It provides a safe conditioned variable DC output power from an AC power source. Built-in sensing gives the operator accurate and precise control over the pump during sampling events. An average 1000 Watt gasoline powered generator with 1 gallon of gasoline can operate the SS Geosub Controller and Geotech's sampling pump at full power for up to 18 hours continuously (generally much longer runtimes can be expected as the controller is used to reduce water flow for low flow sampling).

FEATURES

- Converts AC Voltage to variable up to 300 watt DC voltage output
- Short circuit protection for your safety
- Heavy duty rated power cable for years of service
- 2-line x 16-character wide temperature range alpha-numeric digital display
- Push button Up/Down control
- Internal processor saves individual well parameters
- Optional DC to AC Inverter can be connected to a vehicle battery

OPERATION

An easy-to-use programmable user interface with bright display offers precise control of flow rates during groundwater sampling events. Site specific settings and conditions can easily be stored and recalled for more efficient repeatable sampling events.

Rugged construction and easy to connect cables make setup and portability a breeze. In addition, the controller includes a user programmable dry run protection feature.

SPECIFICATIONS

Input Power Range	100-130 Volts AC
	50/60 HZ 310 Watts
	4.2 amps nominal full load 115 Volts AC
	200-250 Volts AC
	50/60 HZ 310 Watts
	2.1 amps nominal full load 230 Volts AC
Output Power	Variable 0-46V DC @ <300 Watts
Output Power @ Max. Voltage	10 amps maximum
Operating Temp	-20°F to 100°F (-29°C to 38°C) ambient air temp.
Humidity	Up to 90% humidity
Weight of Unit	16.45 lbs. (7.46 kg)
Size of Unit	16" L x 13" W x 7" H (41cm L x 33cm W x 18cm H)
Input Protection	5A CB



Geotech Geosub 2 & Controller



Optional DC to AC Inverter

geotech



Envirotecnics Global Service SL
Calle Pirineus 71- 17460 Celrà · España Tel: +34 872 080 542
Avda. Fuentemar, 20 Nave B-10 Parque Navegando 28.823
Coslada · Madrid · España Tel: + 34 916 780 039
envirotecnics@envirotecnics.com www.envirotecnics.com

