



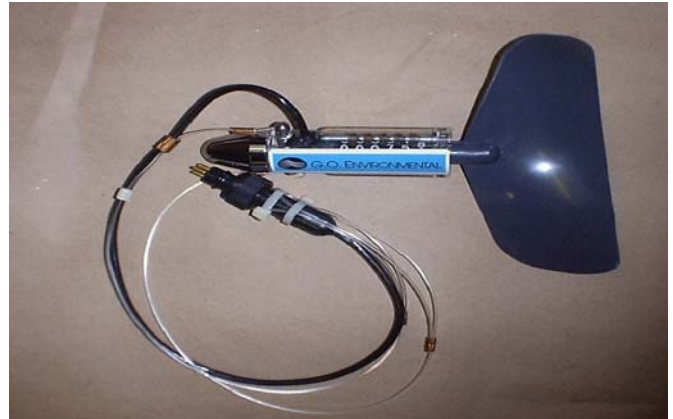
# GENERAL OCEANICS

1295 N.W. 163<sup>rd</sup> Street  
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## FLOWMETERS



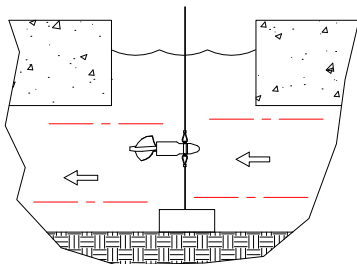
**Model 2030R Mechanical Flowmeter  
With High-speed Impeller**



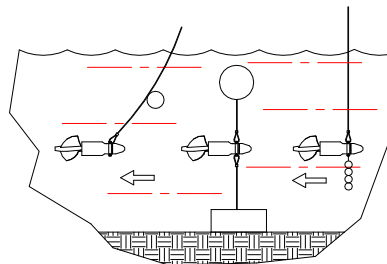
**Model 2031HR6 Electronic Flowmeter  
With Low-speed Impeller**

Small and lightweight general purpose impeller instruments for use in open channel applications including rivers, estuaries, canals, sewage outfalls, pipes, harbor entrances, offshore sites and in association with plankton nets and other samplers. These flowmeters have been used as towed speed logs by some America's Cup contenders. Corrosion-free operation. Ballasted for dynamic *in situ* operation. Unlimited depth capability.

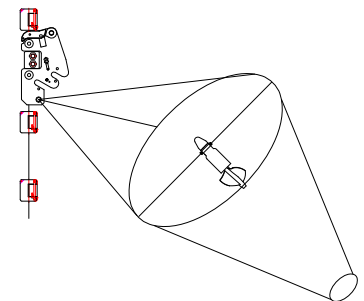
The Model 2030R is a standard flowmeter. The Model 2031H uses magnets to actuate a solid-state hall effect generator, creating a signal for processing by the readout.



Open channel use with  
optional memory module



Installations in  
open areas



Flowmeter mounted  
in mouth of CC5100 series  
plankton net system



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**Basic models, 2030 series:**

2030R – Standard mechanical flowmeter  
2030R6 - Low-speed impeller  
2030RC – One-way clutch  
2030R6C - Low-speed impeller and one-way clutch

**Basic models, 2031 series:**

2031H – Standard, with hall sensor & cable  
2031HR6 – Low-speed impeller  
2031HRC– One-way clutch  
2031HR6C - Low-speed impeller and one-way clutch

## SPECIFICATIONS

**Data readout** - Six 10-digit counter wheel reading 000000 to 999999. Ten counts per rotor revolution, non-resetting. Read by noting difference in beginning and end readings. Counter advances through 000000.

999999 counts equals approximately 14.5 nautical miles.

**Speed range** – With standard rotor, approx. 10cm/sec (1/5 knot) to 7.9 meters/sec (15 knots).

With low-speed rotor, approx. 6cm/sec (3/25 knot) to 100cm/sec (2 knots).

**Mounting** – Universal bridle allowing single-point connection for towing or two-point connection within net mouth. 3-point connection ring is also available as an option.

High-speed impeller rotates clockwise, low-speed impeller rotates counterclockwise.

**Weight in air** – 225 grams (8 ounces).

**Weight in water** – 113 grams (4 ounces).

**Materials** - Polycarbonate body, Celcon impeller, nickel-plated brass nose cone, Armalloyed stainless steel rotor and idler gear shafts. PVC low-speed impeller available as an option.

**Dimensions** - 21.3cm (8 3/8") overall length. Standard rotor diameter is 6.98cm (2 3/4"). Low-speed rotor diameter is 16.5cm (6 1/2").

**Depth rating** – Unlimited (free flooding).

Standard order of a 2030 series flowmeter includes universal bridle, standard or low-speed rotor.

Standard order of a 2031 series flowmeter includes universal bridle, standard or low-speed rotor and pigtail (short length of cable and underwater connector for connection to readout cable).

Readouts and other options to be ordered separately.

## OPTIONS

**Low-speed impeller** – High resolution rotor for low-speed applications.

**One-way clutch** – Prohibits backward motion of rotor.

**2030W** – Wading rod for open-channel use.

**2030CF**- Spin resistance tester for monitoring performance of counter mechanism.

**20307** - 7-digit counter, increases range to approx. 145 nautical miles.

**2135** – Data acquisition readout, RS232 compatible.

**2135D** – Interface module with cable and Flow-soft application software.

**2031HCXX** – Extension cable, "XX" denotes length in meters.

**For prices and delivery please e-mail sales @generaloceanics.com.**

**Technical data subject to change without notice.**

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