GENERAL OCEANICS

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MODEL 2135 DATA ACQUISITION READOUT

The Model 2135 is a microprocessor controlled data acquisition system designed to provide velocity and distance data derived from the General Oceanics 2031 Series Flowmeter. The flowmeter incorporates a magnetically triggered switch that sends pulses at a rate proportional to the fluid speed. The circuitry within the Model 2135 converts these pulses into fluid velocity, and distance on the display. The unit calculates the fluid velocity using a highly stable crystal controlled time base. The characteristics of the 2031H and the stable data acquisition time base foregoes the necessity of repeated, time consuming calibration procedures. The large two line LCD displays the selected impeller type, High speed (H) or Low speed (L), real-time fluid velocity and accumulated distance readings. Both the impeller type and velocity and distance units are changed by setting a user accessible DIP switch.

The microprocessor uses the fluid velocity value to calculate the accumulated distance in real time. A Stop/Start pull/push switch conveniently placed on the top panel is used to reset the elapsed time counter and the accumulated distance calculations. Activation, by pulling, of the switch stops the unit from further operation and holds elapsed time, the last velocity measurement and the total distance measured. These values are displayed until the switch is pushed in; this resets the timer and count to zero. When power is supplied to the readout by plugging in the flowmeter cable, the display will show the parameters selected.

Fluid velocity may be displayed in cm/sec., m/sec., ft/sec. or knots. Distance is displayed in either meters or nautical miles. The unit also monitors battery voltage and informs the user when a low battery condition exists. The circuitry is housed in a waterproof ABS case designed to provide years of low maintenance use in harsh environments. A shoulder strap is provided along with 10 meters of connecting cable.

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SPECIFICATIONS

Velocity - 0 to 9999 m/sec, cm/sec, ft/sec or knots
Distance - Accumulative to 65,635 meters
Elapsed Timer – to 9 hours, 59 minutes, 59 seconds
Operating Temperature - 0 to 50 Degrees Celsius
Accuracy - +/- 1% Full Scale
Weight - .45 Kg (1 lb) Batteries included
Dimensions -Length: 23.3cm (9.2 in.)
- Width:11.5 cm (4.5 in.)
-Depth:4.5 cm (1.75 in.)
Display - Two line, 32 character, high contrast super twist LCD
Enclosures – Standard water resistant (NEMA 4) ABS housing.
Memory - 256 KB (optional). Approx. 200,000 readings.
Battery Supply - Four 1.5 volt AA Manganese-alkaline batteries.
(Duracell MN-1500 or equivalent.) Minimum of 150 hours of continuous use.

Options to be ordered separately.

OPTIONS

Expanded Memory (2135MEM)
The Model 2135 has the capability to be connected to a computer via an RS232C interface. This option includes an RS232C interface cable, mating input connector with dust covers; onboard magnetic "F" RAM capable of storing approximately 200,000 samples and Flow-Soft software.

Underwater pressure housing option (2135PC)

A waterproof housing is available for use by divers or ROV interfacing. With the exception of the RS232 interface port, all functions of the 2135 are accessible when used in this manner. This option includes a pressure housing rated to 61 psi (120 ft.), and an interface cable to mate to the flowmeter. Left and right hand handles make this unit easy to use and maneuver. Modifications to the 2135 are not necessary thus making it available for surface use when not required underwater.

For prices and delivery please e-mail sales @generaloceanics.com.
Technical data subject to change without notice.