



Model H-330

Dual Interface Shaft Encoder
SDI-12 & Quadrature

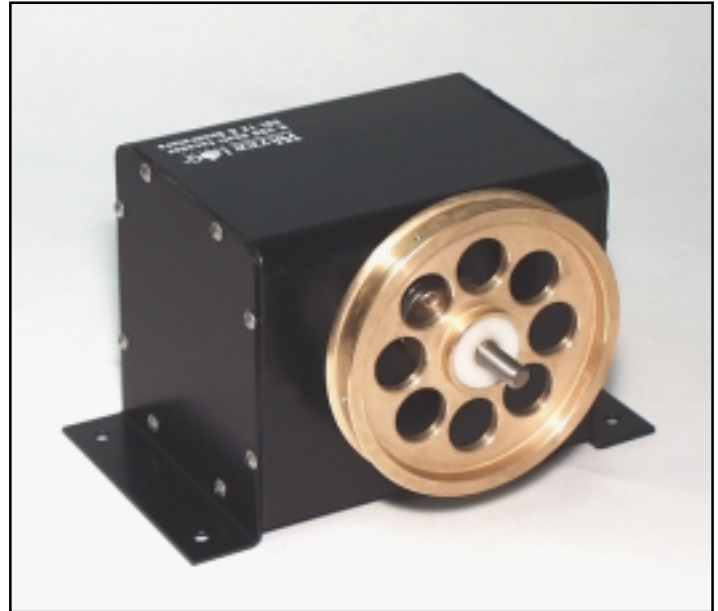
The **WATERLOG**® H-330 is a digital shaft encoder which measures water level by monitoring the angular position of a shaft. Suitable for measuring water level utilizing a float and pulley system. The H-330 is easy to use and works with any SDI-12 data recorder.

KEY FEATURES

- Battery powered operation with minimal current drain
- Low system cost
- Multiple sensors on a simple three-wire cable (SDI-12)
- Magnetic sensing minimizes static sensitivity
- 200 counts per revolution for the SDI-12 output
- 100 counts per revolution for the quadrature output

APPLICATIONS

- Scales the encoder position into user units of feet, meters, etc.
- Sealed precision dual bearing design with special low temperature lubricant
- Sealed enclosure protects from moisture and dirt
- Threaded shaft compatible with older mechanical shaft encoder wheels
- Zero backlash
- Low current operation (less than 800 microamps typical standby)
- High-speed encoder circuitry prevents missing counts due to rapid movement from wave action or sudden movement in freeze/thaw conditions - 15 ft/sec typical
- Built in transient over voltage protection circuitry



SPECIFICATIONS

General

Input: Shaft Position
Outputs: SDI-12 & 2-Wire Quadrature

Resolution (SDI): 200 counts/rev
Resolution (Quadrature): 100 counts/rev
Max Shaft Rotation: 15 rev/sec

Quadrature Output

Type: Open Drain
(Optional factory installed pull up resistor to 5.0 V)
Transient Protection: 5.0V Transguard

SDI-12 Output

Baud Rate: 1200
Protocol: SDI-12, 7-bit even parity, 1 stop bit

Output Voltage Levels:
minimum high level: 3.5 volts
maximum low level: 0.8 volts
maximum cable length: 250 ft.

Power Requirements

Voltage Input: 9.6 to 16.0 Volts DC
Current: Less than 2.0mA
800mA typical

Environmental

Operating Temperature: -40 to 60 EC
Storage Temperature: -50 to 70 EC
Humidity: 0 to 100%

Mechanical

Bearing: Double bearing with external seal and .125" separation.
Starting Torque: 0.15 oz-in typical
0.50 oz-in max over temperature
Shaft: 5/16" compatible with Stevens and Fisher and Porter pulleys and accessories.
Shaft Length: 2.00"
Shaft Clearance: 1.75"
Shaft Tread: 24 threads per inch
Thread Length: 0.75"
Material: Anodized Aluminum
Size: 5-1/8" wide (main unit)
7" wide (base plate)
4-1/4" high
4" deep (not including shaft or connectors)

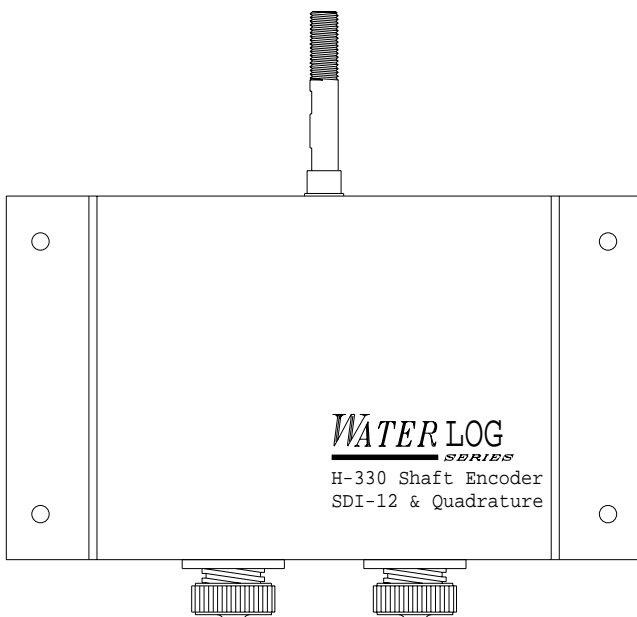
Connectors (2 ea, same connections)

H-330: AMP 206486-1 (9-Pin male)
Cable: AMP 206485-1 (9-Pin female)
(One cable provided with the H-330)

Warranty

WATERLOG® H-330 is warranted against defects in materials and workmanship for one year from date of shipment.

Note: Specifications subject to change without prior notice due to on going commitment to product testing and improvement.
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Australian Distributor:

Semrad Pty Ltd

Phone: +61 2 9520 0222

Fax: +61 2 9520 1333

Website: <http://www.semrad.com.au>

Sales: sales@semrad.com.au