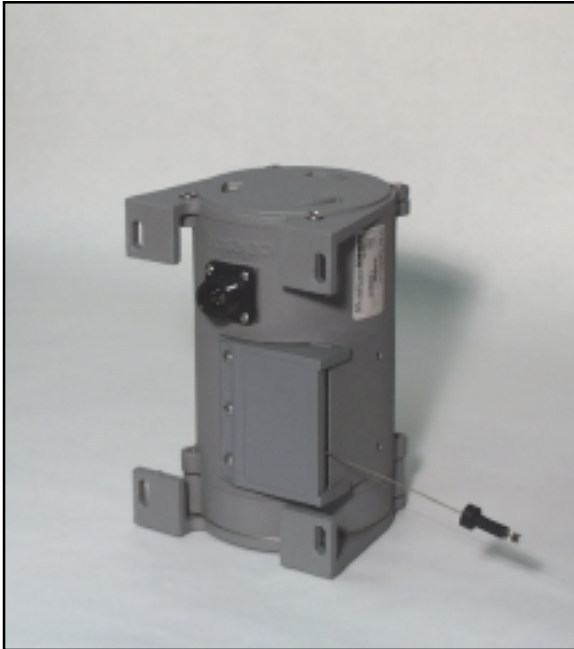


Model H-336

Linear Cable Extension Transducer
with SDI-12 Output



The *WATERLOG*[®] H-336 is a SDI-12 digital linear cable extension position transducer which measures distances by monitoring the amount of cable extended from the transducer. The H-336 is easy to use and works with any SDI-12 data recorder.

KEY FEATURES

- Measures the position of slide gates, canal gates, and other linear mechanisms
- Linear position is measured using a flexible stainless steel cable and a precision spring-loaded spool
- Sealed enclosure protects built-in SDI-12 electronics from moisture and dirt
- Output is easily scaled into user units of feet, inches, meters, etc.
- Available with four cable orientations
- SDI-12 protocol supports multiple sensors on a simple three-wire cable
- Low current operation (less than 200 microamps typical standby)
- Water resistant connector provides easy hookup



SPECIFICATIONS

General

Input: Cable Position
Outputs: SDI-12
Resolution: 1 part in 16384 (14 bit)
Accuracy: $\pm 0.10\%$ full stroke
Repeatability: $\pm 0.02\%$ full stroke
Cycle Life: 250,000 cycles, min.
Range: See table below

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.

Reported Measurement Time: 1 Second

Power Requirements

Voltage Input: 9.6 to 16.0 Volts DC
Current:
Sleep Mode: 150 mA Max
SDI-12 Active Mode: 20 mA Max (for 250 mS)

Environmental

Environmental Suitability: Nema 6
Operating Temperature: -40 to 60 $^{\circ}$ C
Storage Temperature: -50 to 70 $^{\circ}$ C

Mechanical

Case Material: Powder painted Aluminum
Cable: Stainless Steel
Cable Tension: 26 oz.

Size: 5.40 in. wide (base plate)
7.87 in. deep (base plate)
5.16 in. high (main unit)
Weight: 8lbs.

Connector

H-336: MS3102E-14S-6P (6-Pin male)
Cable: MS3106E-14S-6S (6-Pin female)
(One 6 foot cable provided with the H-336)

Warranty

WATERLOG[®] H-336 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.
September 1, 2000

Range: Inches (Feet)	Accuracy: Feet	Resolution: Feet
0 - 75 Inches (0 - 6.25 Feet)	± 0.00625	± 0.00038
0 - 100 Inches (0 - 8.33 Feet)	± 0.00833	± 0.00050
0 - 150 Inches (0 - 12.5 Feet)	± 0.0125	± 0.00076
0 - 200 Inches (0 - 16.66 Feet)	± 0.0166	± 0.0010
0 - 250 Inches (0 - 20.83 Feet)	± 0.0208	± 0.0013
0 - 300 Inches (0 - 25.00 Feet)	± 0.0250	± 0.0015
0 - 350 Inches (0 - 29.16 Feet)	± 0.0292	± 0.0018
0 - 400 Inches (0 - 33.33 Feet)	± 0.0333	± 0.0020
0 - 450 Inches (0 - 37.50 Feet)	± 0.0375	± 0.0023
0 - 500 Inches (0 - 41.66 Feet)	± 0.0416	± 0.0025
0 - 550 Inches (0 - 45.83 Feet)	± 0.0458	± 0.0028



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