

SDI-12 Encoders

Features

- Float-Operated Input Device for Water Level Sensing
- Industry Standard SDI-12 Output
- Compatible with Existing Float Gaging Accessories

Shaft Encoder

- Optional LCD Readout/Programming Capability
- Optional Backup Battery with Voltage Readout

A/F Attachment

- Attaches to Existing A or F Chart Recorders

Applications

- Ground Water Level
- Stilling Well Monitoring
- Industrial Level Measurement and Control
- Weir and Flumes



Description

Shaft Encoder

The Stevens SDI-12 Shaft Encoder is a float-operated level sensor that measures the stage (level) of streams, rivers, lakes, and reservoirs. The SDI-12 Shaft Encoder can easily interface with data loggers and/or other equipment that have SDI-12 communication ports. In normal operation the SDI-12 Shaft Encoder obtains its power from the data logger or a similar device.

The user can fully program this sensor without the use of any external device or computer. The display can also be set to continuously output the current level reading.

A/F Attachment

The Stevens SDI-12 A/F Attachment provides an industry standard SDI-12 output for use with an existing Type A or Type F Chart Recorder, providing an easy method of upgrading to solid state data recording. The SDI-12 A/F Attachment was designed primarily as an input device for use with the AxSys MPU or the DOT Logger.

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Technical Specifications

General: Output Range
SDI-12 serial data communications -999.99 to 999.99
Accuracy Torque
 ± 0.01 ft (with 12" circumference pulley) 0.2 in-oz or less
Power Requirements
Nominal 12 VDC (9-15 VDC) supplied by connected Stevens instrument
Operating Temperature
-40° to 70°C (-40° to 158°F)
Humidity
To 95% relative, non-condensing
This can be improved by installing fresh desiccant inside the enclosure

Shaft Encoder: Input
Shaft and pulley clamp to accept standard Stevens 12 inch, 18 inch or 375mm circumference float pulley
Size
5" w x 6.4" l x 5.85" h (127mm x 163mm x 149mm) exclusive of mounting flanges and input shaft (other sizes available to meet customer requirements)
Weight
2.4 lb (1.1kg)

A/F Attachment: Input
Existing Type A or Type F Chart Recorder
Size
3.5" w x 4.5" l x 5.5" h
Weight
2 lb

Ordering Information

Product Number	Description
91185	SDI-12 Shaft Encoder with display
91274	SDI-12 Shaft Encoder without display
93014	SDI-12 A/F Attachment Assembly

The following are typical Shaft Encoder configurations:

Beaded Float Line Version: #12150 Float Pulley, 12" circ. for beaded float line
#20447 6" diameter Copper Float
#48214 Counterweight, Stainless Steel, 8 oz.
#15147 End Hooks, set of 2

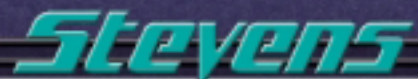
Float Tape Version: #18744 Float Pulley, 12" circ. for float tape
#20447 6" diameter Copper Float
#48213 Counterweight, Stainless Steel, 6 oz.
#10279 Index Bracket
#15147 End Hooks, set of 2

For other configurations, or questions, please contact us.



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