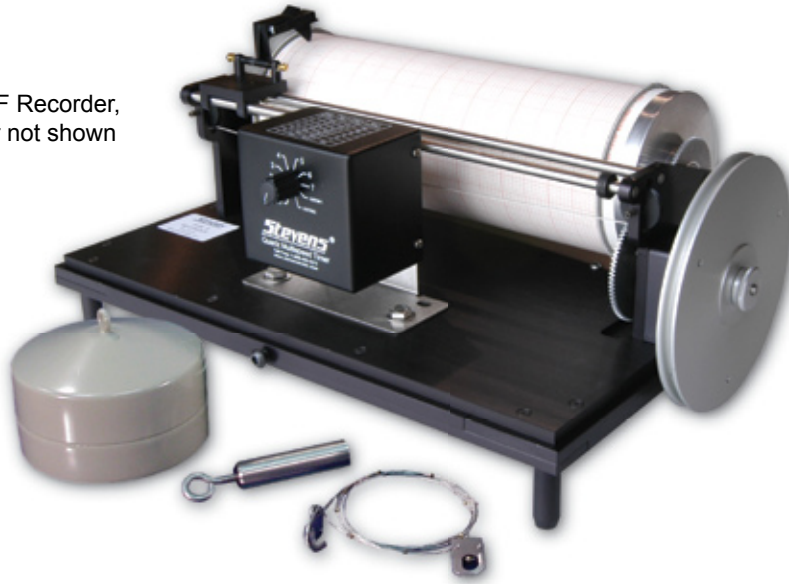


# Type F Chart Recorder

## Features

Type F Recorder,  
Cover not shown



- A true real-time, immediate charted measurement
- Long-term unattended operations
- Low power
- Portable chart recorder
- Highly accurate and permanently records the varying levels of any liquid surface without electronic processing
- Easy to install and maintain
- Ideal in areas with high lightning potential

## Description

The Stevens Type F Water Level Recorder quickly became a favorite mechanical chart recorder with hydrologists and technicians who appreciated its real-time accuracy. Through the years, this proven design has been adopted as the worldwide standard. Over 40,000 Stevens Chart Recorders have been installed and used both as a primary and backup instrument to record water level. Flow data may also be obtained when used with weirs, flumes or where water level is an index to flow.

The Type F real-time graph shows the water level against a record of time. The range of chartable water level is limited only by the length of the float line and float size. The Type F is often used simultaneously with electronic data loggers. The Stevens A/F Encoder or SDI-12 Encoder can easily be attached directly to the Type F to transmit water level measurement to a data logger or used for transmission of water level or flow information.

Time scales relate to the rate that the pen travels across the chart, and are expressed in inches (cm) per day(s). The following table shows how long the chart paper will last at various time scales:

Inches (cm) Per Day	Chart Life	Value of Smallest Chart Division
0.3 (0.76)	32 days	8 hours
0.6 (1.5)	16 days	4 hours
1.2 (3.05)	8 days	2 hours
2.4 (6.1)	4 days	1 hour
4.8 (12.2)	2 days	30 minutes
9.6 (24.4)	1 day	15 minutes
19.2 (48.8)	12 hours	7.5 minutes

## Applications

- Stream gaging
- Groundwater level measurement
- Irrigation canals
- Tank levels
- Dam and reservoir level

# Type F Chart Recorder

## Technical Specifications

### Corporate Headquarters

12067 NE Glenn Widing Drive  
Suite 106  
Portland, Oregon 97220

800.452.5272 Tel  
503.445.8000  
503.445.8001 Fax  
info@stevenswater.com  
www.stevenswater.com

Since 1911, Stevens Water Monitoring Systems, Inc. has been a leading manufacturer of:

- Water Level Sensors
- Water Quality Sensors
- Soil Moisture Sensors
- Chart Recorders
- Staff Gages
- Telemetry Systems
- Data Collection Platforms

### Accuracy

0.01 foot (3 mm) at 1:1 scale using  
5 inch (127 mm) diameter float

0.002 foot (0.6) using a large  
enough float

### Power

Quartz multi-speed timer with  
eight "D" cell batteries **or**  
6 to 14 VDC external supply

### Size

Height - 10 inches (254 mm) with  
cover closed

Length - 14.25 inches (362 mm)  
not including pulley

Width - 9.5 inches (241 mm)

Approximate shipping weight  
25 lbs (11.32 kg)

The Stevens Type F Chart Recorder comes with batteries for the QMT, one pack of chart paper (54 sheets), one cartridge pen, and a cover for the recorder.

## Ordering Information

Floats & Counter-Weights		
Part #	Description	Size
20442	Copper Float <sup>1</sup>	2.5 in (63 mm)
20445	Copper Float <sup>1</sup>	4 in (102 mm)
20446	Copper Float <sup>1</sup>	5 in (127 mm)
20447	Copper Float <sup>1</sup>	6 in (153 mm)
20449	Copper Float <sup>1</sup>	8 in (203 mm)
48210	Counterweight <sup>1</sup>	3 oz
48211	Counterweight <sup>1</sup>	4 oz
48213	Counterweight <sup>1</sup>	6 oz
48214	Counterweight <sup>1</sup>	8 oz

Pulleys, Float Line & End Hooks		
Part #	Description	Size
10318	Pulley for beaded line	375 mm
10322	Pulley for float tape	375 mm
10160	Pulley for beaded line	18 inch
10165	Pulley for float tape	18 inch
23994	Float line-beaded <sup>2</sup>	6 in bead spacing
19343	Float line-beaded <sup>2</sup>	125 mm bead spacing
15147	End hooks	n/a
27371	Float tape - blank <sup>2</sup>	6 inch center
27370	Float tape - blank <sup>2</sup>	12.5 cm center

Gage Scale Gearing		
Part #	Description	Level Change for 1 Revolution of Chart
30470	1:1 metric	0.3 meters
30471	1:2 metric	0.6 meters
30472	1:5 metric	1.5 meters
30473	1:10 metric	3.0 meters
30474	1:1 english	1.0 foot
30475	1:2 english	2.0 feet
30476	1:5 english	5.0 feet
30477	1:10 english	10.0 feet

Chart Paper, Ink & Accessories	
Part #	Description
90037	F-1 (English) charts, 4 pack
10311	Guide pulley for float line
90030	Cartridge pen, 12 pack
90040	F-4 (metric) charts, 4 pack
10313	Guide pulley for float tape
12082	Cover with viewing port
90043	Type A/F Encoder attachment
91274	SDI-12 Encoder attachment

1. Other non-standard float and counter weight size/configurations available. Please contact Stevens.  
2. Specify length of float line or float tape. Please contact Stevens for graduated float tape options.