# Type F Chart Recorder

DISCONTINUED

Type F Recorder,
Cover not shown

## 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 by 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 |

## Features

- 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

## Applications

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

www.stevenswater.com 1.800.452.5272

Stevens® Water Monitoring Systems, Inc.

Stevens
Water Monitoring Systems, Inc.

**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

# Type F Chart Recorder

## Technical Specifications

**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 [1] | 2.5 in (63 mm) |
| 20445 | Copper Float [1] | 4 in (102 mm) |
| 20446 | Copper Float [1] | 5 in (127 mm) |
| 20447 | Copper Float [1] | 6 in (153 mm) |
| 20449 | Copper Float [1] | 8 in (203 mm) |
| 48210 | Counterweight [1] | 3 oz |
| 48211 | Counterweight [1] | 4 oz |
| 48213 | Counterweight [1] | 6 oz |
| 48214 | Counterweight [1] | 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 [2] | 6 in bead spacing |
| 19343 | Float line-beaded [2] | 125 mm bead spacing |
| 15147 | End hooks | n/a |
| 27371 | Float tape - blank [2] | 6 inch center |
| 27370 | Float tape - blank [2] | 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.