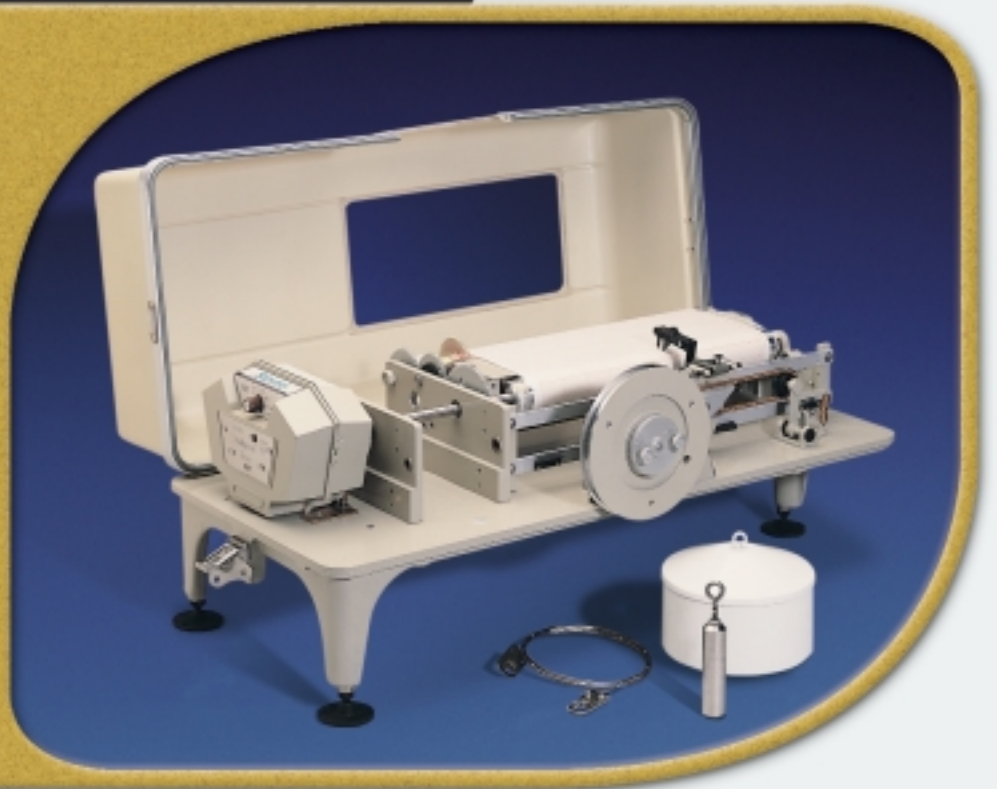


A-71 Water Level Chart Recorder

Features

- Long-Term, Unattended Operation
- Low Power
- Immediate Charted Measurements
- Easy to Install and Maintain
- Time Proven Reliability



Applications

- Stream Gaging
- Ground Water Level Measurement
- Irrigation Canals

Description

The Type A-71 Water Level Chart Recorder is the world's most time-proven standard in quality and reliability for installation where continuous, long-term water level measurement operations are required. 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 it is used with weirs, flumes or where water level is an index of flow.

The Type A-71 can be used simultaneously with electronic data loggers. The Stevens PG-III, A/F Encoder or SDI-12 Encoder can easily be attached directly to the Type A-71 to transmit pulses to a data logger or used for real-time transmission of water-level information. Other sensor output can be charted on the Type A-71 using the Stevens Electro Chart Drive.

Time scales are designated by the number of inches of chart used in one day. The time scale with a Quartz Multispeed Timer (QMT) is as follows:

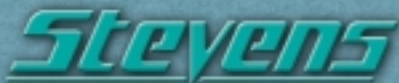
| Inches (cm) per day | Major Division 0.1 in. (0.25cm) | Major Division 1.2 in. (3.0cm) | Chart Life |
|---------------------|---------------------------------|--------------------------------|------------|
| 0.6 (1.5) | 48 hours | 4 hours | 4 years |
| 1.2 (3.0) | 24 hours | 2 hours | 2 years |
| 2.4 (6.1) | 12 hours | 1 hour | 1 year |
| 4.8 (12.2) | 6 hours | 30 minutes | 6 months |
| 9.6 (24.4) | 3 hours | 15 minutes | 3 months |
| 19.2 (48.8) | 1.5 hours | 7.5 minutes | 1.5 months |
| 38.4 (97.5) | 45 minutes | 3.75 minutes | 22.5 days |

Chart Life with an optional Chelsea Spring Driven Clock is 3 months to 2 years.

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Stevens

A-71 Water Level Chart Recorder



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Technical Specifications

Chart Drive Options

Quartz Multispeed Timer (6 month battery)
4.5 or 6 month negator spring-driven clock

Operating Temperature

-20° to +160°F
(QMT with 6 Alkaline D Cells)
To -40°F
(lead acid battery or negator spring)

Size

Height – 11 inches (279mm)
with cover closed
Height – 16.5 inches (419mm)
with cover open
Length – 24.125 inches (613mm)
Width – 12.5 inches (618mm)
Approximate shipping weight –
45 lbs (20.41Kg)

Ordering Information

The Type A-71 standard gage scale is 1:6 English (part number 90090-001) or 1:5 metric (part number 90090-002) and includes two cartridge pens, a Quartz Multispeed Timer with batteries, one roll of chart paper. In addition, please specify desired pulley, float and float line part number.

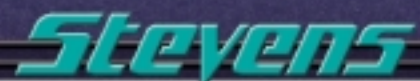
| Part # | Description | Size | Part # | Description | Size |
|----------------|------------------------|----------------------------------------------|----------------|------------------------|------------------------------------|
| 10160 | Pulley for beaded line | 18 inch | 10318 | Pulley for beaded line | 375mm |
| 10165 | Pulley for float tape | 18 inch | 10322 | Pulley for float tape | 375mm |
| 20447 | Float (1) | 6 inch (150mm) | 48214 | Counter weights (1) | 8oz |
| 20449 | Float (1) | 8 inch (203mm) | 48215 | Counter weights (1) | 10oz |
| 20451 | Float (1) | 10 inch (254mm) | 48216 | Counter weights (1) | 12oz |
| 20452 | Float (1) | 12 inch (305mm) | 48217 | Counter weights (1) | 12oz |
| 20453 | Float (1) | 14 inch (356mm) | 15147 | End hooks | N/A |
| 23994 19343 | Float line-beaded (2) | 6 inch bead spacing or 125mm bead spacing | 27371 27370 | Float tape – blank (2) | 6 inch center 12.5cm center (2) |

Replacement parts and optional accessories:

| Part # | Description | Part # | Description |
|--------|----------------------------------------------------------------|--------|---------------------------------------------------------------|
| 90035 | A-10 English chart paper – 12 pack (P/N 14956 for one roll) | 90036 | A-25 Metric chart paper – 12 pack (P/N 14959 for one roll) |
| 10311 | Guide pulley for float line | 10313 | Guide pulley for float tape |
| 90030 | Cartridge pens for 12 pack 12 pack (P/N 25387 for one roll) | 10050 | Reversal indicator |

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

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