

AxSys CCR Flowmeter



Description

The AxSys Circular Chart Recorder (CCR) Flowmeter is typically used for monitoring, recording and totalizing open channel flows in water and wastewater. The CCR is designed to accept a variety of sensor inputs including float-operated, submersible and bubbler-type pressure sensors and look-down ultrasonics. Rating tables can easily be programmed into the CCR and adjusted to instantaneously calculate and report on water flow rate, then accumulate the discharge flow totals over a user-specified interval.

The built-in data logger collects, processes, stores and can transmit the data from the attached sensors. The CCR is equipped with a PCMCIA data card slot for convenient collection and transport of data to your office computer. The flow measurement or data from any of the attached sensors can also be charted on the built-in, 6-inch diameter circular chart for a quick, continuous, and visual reference of the measurement history. Users may select a chart speed of 6 hours, 24 hours, 7 days or 31 days.

The CCR has an optional, built-in digital shaft encoder making for a complete integrated flowmeter system. Also, the CCR with this shaft encoder is designed to easily retrofit existing Stevens 61R installations.

Features

- Datalogger and flow meter. Charts flow or any selected measurement on a circle chart
- Built-in keypad and 2-line alpha-numerica display
- Internal battery backup
- Digital output option for pacing and sample triggering
- Satellite, radio, and telephone modem options
- Included an optional, built-in digital shaft encoder

Applications

- Water and wastewater open channel influent and effluent flow monitoring
- Industrial discharge
- Permit enforcement
- Flow recording
- Dam and reservoir level

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Since 1911, Stevens Water Monitoring Systems, Inc. has provided complete water monitoring solutions including:

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

Technical Specifications

Data Logging

Recording Interval

- 1, 5, 6, 10, 15, 30 seconds
- 1, 5, 6, 10, 15, 30 minutes
- 1, 2, 4, 6, 8, 12, 24 hours

Real-time clock

Accuracy +/- 3 minutes/month, leap year correction

Non-volatile Memory

All setup parameters and clock, internal lithium battery

Serial Port

RS232, minimum +/- 5 VDC levels, 300 to 9600 baud

Storage

On-board Data Storage

FLASH EPROM, 128k Bytes, storing 60,000 readings

Data Card

LINEAR FLASH EPROM, PCMCIA, 256k Bytes, storing 120,000 readings

Power Specifications

Internal Backup Batteries

8 AA cell batteries

Internal Battery Operations Only

12 hours typical

Power Requirements

10-17 VDC, 200 mA

Physical Size

Length x Width x Height

14.9" x 13.5" x 9.25"
(37.8 cm x 34.2 cm x 23.4 cm)

Weight

15 lbs (6.8 kg)

Display

Keyboard & Display

2 x 24 character alpha-numeric display,
4 key built-in touch keypad

Chart Speeds / Accuracy

6 hour, 24 hour, 7 day, 31 day per revolution at +/- 1%

Pen

Ink cartridge

Chart Recording Pen Charting Accuracy

+/- 3%

Environmental

Chart Operating Temperature

0° C to +50° C, up to 100% humidity condensing in NEMA 4 configuration

Data Logger Operating Temperature

-40° C to +60° C

Storage Temperature

-40° C to +65° C

Material

ABS Plastic

Ordering Information

Part #	Description	Part #	Description
91163	AxSys CCR (4-20 mA input)	91216	AxSys CCR with Digital Shaft Encoder
90740	110 vac input / 12 VDC 400mA output	47764	9 pin to 25 pin adapter
91244	Circular Charts - 24 hour, pack of 100	91243	Circular Charts - 6 hour, pack of 100
91246	Circular Charts - 31 day, pack of 60	91245	Circular Charts - 7 day, pack of 60
91259	Cartridge pen, black, box of 6		