

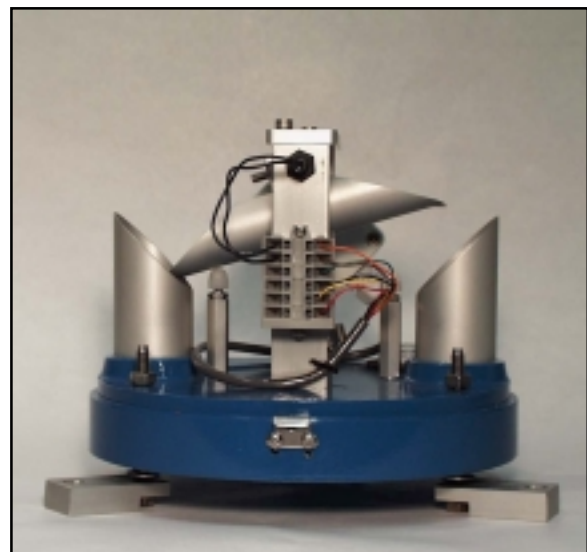
The **WATERLOG[®]** H-340SDI is a precision tipping bucket rain gauge with a built-in SDI-12 digital interface. The gauge is accurate for rainfall rates from 0 to 25 inches/hour.

KEY FEATURES

- Works with any data logger with a SDI-12 port.
- SDI-12 digital interface supports multiple sensors on a simple three wire cable.
- Built in microprocessor automatically corrects for errors caused by sensitivity of the tipping bucket mechanism to varying rainfall rates.
- Removable stainless steel funnel screen.
- Rustproof, powder painted aluminum enclosure and cast base.
- All internal parts anodized aluminum or stainless steel.
- Magnetic reed bucket tip sensor
- Precision bucket bearings
- Side windows allow inspection of the mechanism without removing cover.
- Adjustable feet with internal bulls-eye level

APPLICATIONS

- Accurately measure rainfall.
- Monitor storm water run off
- Meterology



SPECIFICATIONS

General

Sensor: Tipping bucket with magnetic reed switch sensor.

Accuracy/ Rainfall Rate

Built in microprocessor measures the time between bucket tips (rainfall rate) and uses this data to compute the bucket volume per tip at the current rainfall rate. A built-in math polynomial provides corrected bucket volume for rainfall rates between 0 and 25 in/hour.

Resolution: 0.01 Inches
Rain fall rate: 0 to 25 inches/hour (calibrated)

SDI-12 Output

Baud Rate: 1200
Protocol: SDI-12, 7-bit even parity, 1 stop bit

Output Voltage Levels:
minimum high level: 3.5 volts
maximum low level: 0.8 volts
maximum cable length: 250 ft.

SDI-12 Output Data Parameters:

- 1 - Accumulated rainfall since last measurement
- 2 - Raw bucket count since last measurement
- 3 - Total accumulation
- 4 - Total daily accumulation (today)
- 5 - Total daily accumulation (yesterday)

Automatic daily accumulation using built-in crystal controlled time of day clock.

Power Requirements

Voltage Input: 10.0 to 16.0 Volts DC
Current
Standby 150uA typical
Raining: 3.7mA for 60 seconds
Communicating: 9.8mA

Connectors

SDI-12 Output: 4-position spring clamp terminal block (WAGO)

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Mechanical

Aperture: 8 inch diameter funnel

Diameter: 8 inches

Height: 12 inches

Weight: 8 pounds

Housing:

Extruded aluminum tube with 2" diameter side windows. Cast aluminum base with drain tubes in the bottom. Anodized aluminum internal parts. Stainless steel screws and fasteners. Powder painted base, funnel and housing.

Mounting: 3-stainless leveling screws with adjustable aluminum feet. Internal "bulls-eye" level.

Environmental (electronics)

Operating Temperature: -30E to +60EC
Storage Temperature: -50E to +70EC

Environmental (mechanical)

Operating Temperature: -0E to +60EC

Warranty

WATERLOG® H-340SDI is warranted against defects in materials and workmanship for one year from date of shipment.

Note: Specifications subject to change without prior notice due to on going commitment to product testing and improvement.

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