



# MODEL H-3401

## TIPPING BUCKET RAIN GAUGE

The WaterLOG® model **H-3401** is a precision tipping bucket rain gauge used in hydro-meteorological applications. Each gauge is calibrated at a rate of 10 millimeters (4 inches) per hour. Maintain accuracy at increased rates of rainfall ranging from 635 millimeters (0-25 inches) per hour. The H-3401 series is available in .01 in, 0.1 mm and 0.2 mm resolution ranges.

### APPLICATIONS

Accurately measure rainfall.

### KEY FEATURES

- Two removable stainless steel funnel screens.
- Rustproof, powder painted aluminum enclosure and cast base
- Anodized aluminum or stainless steel internal parts
- Magnetic reed bucket tip sensor
- Internal leveling mechanism with 'bulls-eye' level

#### H-3401SDI Model

- SDI-12 Output
- Built in microprocessor automatically corrects errors



H-3401



a xylem brand

# SPECIFICATIONS

PERFORMANCE		
Accuracy	H-3401	± 2%, 100 mm / hr (4 in per hr )
	H-3401 SDI	± 3%. 0-635 mm / hr (0-25 in per hr)
Resolution	0.01 in, 0.1 mm and 0.2 mm	
MECHANICAL / POWER		
Size	Funnel Aperture	200 mm W (8 in)
	Housing	200 mm W x 300 mm L (8 in W x 12 in L)
	Weight	3.7 kg (8 lbs)
	Screens	Top: 20 cm W 1/8 mesh (8 in) Bottom: 3.81 cm T (1 1/2 in) tower 1/16 mesh
Material	Housing	Extruded aluminum housing Powder painted
	Funnel	Spun aluminum  *Includes screened secondary funnel
	Base	Cast aluminum Powder painted
	Internal	Anodized aluminum internal parts Stainless steel screws
	Sensor	Tipping bucket with magnetic reed switch sensor
	Mounting	Three anodized aluminum external mounting feet
	Leveling	Three stainless steel leveling screws and bulls eye level, internal
	Exit Ports	Two screened drain tube fittings on bottom of casting
Power Requirements	Voltage Input	10.0 to 16.0 volts DC
	Current	Standby: 180µA typical
		Raining: 2.8 mA for 60 seconds
		Communicating: 6 mA
Connection	Screw clamp, for #12-22 AWG wire	
COMMUNICATION		
SDI-Output	Baud Rate	1200
	Protocol	SDI-12, version 1.3
	Output Voltage Levels	Minimum high level: 3.5 volts
		Maximum low level: 0.8 volts
		Maximum cable length: 76 m (250 ft)
Response Time	0.1-second measurement	

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)	
ENVIRONMENTAL		
General	Electronic Operating Temperature	-40° to +60° C
	Storage Temperature	-50° to +70° C
	Mechanical Operating Temperature	0° to +50° C
MISCELLANEOUS		
Warranty	The WaterLOG® H-3401 is warranted against defects in materials and workmanship for two years from date of shipment.	
Note	Specifications subject to change without prior notice due to on going commitment to product testing and improvement. LR May, 2016 (D8-05 0516)	



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