

Rain101A

Rainfall Data Logging System

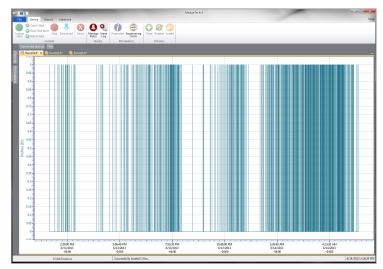


The Rain101A is a complete system to accurately measure and record rainfall over long periods of time. It comes complete with an Event101A data logger, weatherproof enclosure, tipping bucket rain gauge, 50 feet of cable and the IFC200 interface cable and software package.

It can record up to 6 inch of rainfall every hour and 338 feet of rainfall total. The Rain101A only records to memory when rainfall is present, maximizing the amount of time the system can record. Using the logger's built-in Engineering Units, the data can be offloaded and displayed in user-specified units (eg. inches, centimeters). The software can "totalize" the rain bucket tips, allowing easy viewing of the accumulated rainfall over the time period of interest.

The Rain101A features a 10 year battery life, 4Hz reading rate, a multiple start/stop function, ultra-high speed download capability, 838,041 reading storage capacity, optional memory wrap, battery life indicator, optional password protection and more.

MadgeTech 4 Software Features



Graph View

• Mean Kinetic Temperature

• Full time zone support

Min./Max./Average lines

Data annotation

Summary view

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/zoom out
- Lethality equations (F0, PU)

Statistics



Report Options

Tabular Data View



Automation

Features

- Water Resistant Housing for Logger
- High-Precision Tipping Bucket
- Records 0 to 338 feet of Rainfall
- Self-Emptying
- 10 Year Battery Life
- Multiple Start/Stop Function
- Rugged Construction
- Ultra High Speed Download
- · Battery Life Indicator
- Optional Password Protection
- Field Upgradeable

Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

Applications

- · Seasonal Rainfall Data Logging
- Irrigation Studies
- Precipitation Studies

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply.

MEASUREMENT		
Accuracy	±4% over range of 1 inch to 6 inch per hour	
Orifice	8 in dia (204 mm dia)	
Reed Switch Contact Rating	3 W, 28 VAC	
Rainfall Per Bucket Tip	0.01 in (0.254 mm)	
Mounting	(3) .25 in dia holes on 9.5 in dia. circle	

GENERAL		
Start Modes	Immediate start Delay start up to 18 months Multiple pushbutton start/stop	
Stop Modes	Manual through software Timed (specific date and time)	
Multiple Start/Stop Mode	Start and stop the device multiple times without having to download data or communicate with a PC	
Real Time Recording	May be used with PC to monitor and record data in real time	
Password Protection	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.	
Memory	838,041 readings; software configurable memory wrap	
Wrap Around	Yes	
LEDs	2 status LEDs	
Reading Rate*	4Hz to 1 every 24 hours	

^{*}Device will record 1 event per reading interval.

Battery Type	3.6V lithium battery included; user replaceable	
Battery Life	10 years typical, dependent upon frequency and duty cycle	
Time Accuracy	±1 minute/month at 25 °C (77 °F) (Stand alone mode)	
Computer Interface	USB (interface cable required); 115,200 baud	
Operating System Compatibility	Windows XP SP3 or later	
Software Compatibility	Standard Software version 2.04.06 or later Secure Software version 4.1.6.0 or later	
Operating Environment	-20 °C to +80 °C (-4 °F to +176 °F) 0 %RH to 100 %RH	
IP Rating	IP65	
Dimensions	Rain Gauge: 12.0 in x 8.4 in dia (305 mm x 214 mm dia.) Weatherproof Enclosure: 3.5 in x 2.9 in x 1.1 in (87 mm x 73 mm x 27 mm)	
Construction Materials	Funnel: anodized aluminum; base, body and bracket Tipping Bucket: PVC	
Material	Polycarbonate	
Weight	Rain Gauge: 10 lbs (4.5 kg Enclosure and data logger: 9 oz (254 g)	
Approvals	CE	

BATTERY WARNING: FIRE, EXPLOSION AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 100 °C (212 °F), INCINERATE, CRUSH, OR EXPOSE CONTENTS TO WATER.

Ordering Information

Rain101A	PN 901377-00	Rainfall data logging system, includes a tipping-bucket rain gauge, data logger, weather-proof enclosure, 250 feet of cable and the IFC200 interface cable
LTC-7PN	PN 900352-00	Replacement battery for the Rain101A