

Features

- Water Resistant Housing for Logger
- High-Precision Tipping Bucket
- Records 0 to 338' 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



time period of interest.

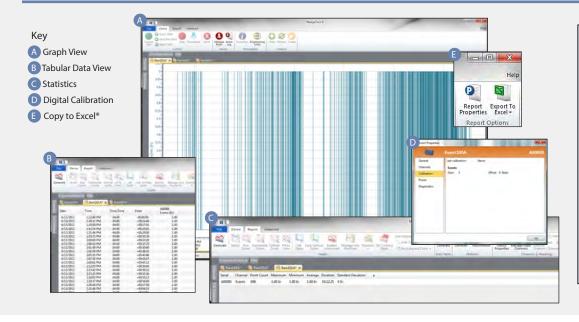
The Rain101A is a complete system to accurately measure and record rainfall over long periods of time. It comes complete with an Event101A data logger, weatherproof enclosure, tipping bucket rain gauge, 20' of cable and the IFC200 interface cable and software package.

It can record up to 6" of rainfall every hour and 338'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

The Rain101A features a 10 year battery life, 4Hz reading rate, a multiple start/stop function, ultra-high speed download capability, 406,323 reading storage capacity, optional memory wrap, battery life indicator, optional password protection and more.

MADGETECH DATA LOGGER SOFTWARE



Software Features:

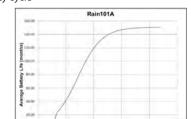
- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

RAIN101A SPECIFICATIONS*

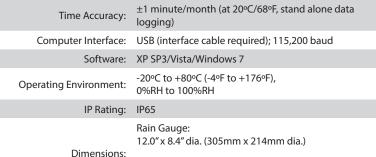
| Accuracy: | ±4% over range of 1" to 6" per hour |
|---|--|
| Orifice: | 8" dia. (204mm dia.) |
| Reed Switch Contact Rating: | 3W, 28VAC |
| Rainfall Per Bucket Tip | 0.01" (0.254mm) |
| Mounting: | (3) 1/4" dia. holes on 9.5" dia. circle |
| Reading Rate**: | 4Hz to 1 every 24 hours |
| Memory: | 406,323 readings; software configurable memory wrap |
| Wrap Around: | Yes |
| Start Modes: | Immediate startDelay start up to 18 monthsMultiple pushbutton start/stop |
| Multiple Start/Stop Mode: | Start and stop the device multiple times without having to download data or communicate with a PC |
| Multiple Start/Stop Mode Activation: | To start the device: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging. To stop the device: Press and hold the pushbutton for 5 seconds, the red LED will flash for three seconds and then the green LED will flash for two seconds. The device has stopped logging. |
| Real Time Recording: | The device may be used with PC to monitor and record data in real-time |
| LED Functionality: | Green LED blinks: 10 second rate to indicate logging 15 second rate to indicate delay start mode Red LED blinks: 10 second rate to indicate low battery and/or full memory |
| 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. |

Battery Type: 3.6V lithium battery included; user replaceable

10 years typical, dependent upon frequency and Battery Life: duty cycle



Graph display of the device recording in a 25°C environment.



Weatherproof Enclosure: 3.5"x2.9"x1.1" (87mmx73mmx27mm)

Funnel: anodized aluminum; base, body and

Construction Materials: bracket

Tipping Bucket: PVC

Rain Gauge: 10 lbs (4.5kg) Weight:

Enclosure and data logger: 9 oz. (254g)

Materials: **ABS Plastic**

Approvals:

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

ORDERING INFORMATION

| MODEL | DESCRIPTION |
|----------|--|
| Rain101A | Rainfall data logging system, includes a tipping-bucket rain gauge, data logger, weatherproof enclosure, 20' of cable and the IFC200 interface cable and software package. |
| IFC200 | Software, manual and USB interface cable |
| LTC-7PN | Replacement battery for Rain101A |
| | |

Temperature Humidity Pressure рΗ Level Shock LCD Display Pulse/Event/State Current Voltage Wireless Intrinsically Safe Spectral Vibration Motion



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