

## 260-2103 Rain Logger

The **260-2103 Rain Logger** connects to standard tipping bucket rain gauges to provide detailed rainfall history. The data can be useful in a wide range of fields such as agriculture, forestry, hydrology, and climatology.

This compact unit comes in a see-through weatherproof case. The LCD display shows the total accumulated rainfall, battery status, and memory status. The logger records the date and time of each bucket tip. Filters to accumulate hourly, daily, weekly, or monthly totals can be programmed. Data is stored in nonvolatile EEPROM memory that retains collected data even if the battery fails. Direct USB connectivity provides fast data download.

### Features

- Displays total, battery status, and memory status
- User selectable scaling (inches or millimeters)
- Records up to to 84,650 tip/events
- Operates for up to 1 year on a replaceable battery
- Software (free download). USB cable not supplied.



### Options

1. The 260-2103 Rain Logger may be purchased by itself. Two feet of 2-conductor cable is provided for connection to an existing tipping bucket rain gauge.
2. Order extra cable to extend the logger for mounting indoors. (Part# 330-0224, per foot)
3. When purchased at the same time as a 260-2500 or 260-2501 Tipping Bucket Rain Gauge, the logger will be mounted inside the gauge and pre-wired. (Part# 260-2103RGI).
4. A complete system, the 260-WS-2501 Data Logging Rain Station includes the 260-2103 Rain Logger, 260-2501 Tipping Bucket Rain Gauge, Rain Gauge Mounting Plate, and 3' Tripod.


### Ordering Information

260-2103	Rain Logger with Display and 2' cable
330-0224	Additional cable, 2-conductor, 24AWG, per foot
195-BHW-KIT	HOBOWare Software CD and 6' USB interface cable

260-2500	Tipping Bucket Rain Gauge 8", 0.01"/tip
260-2500M	Tipping Bucket Rain Gauge 8", 1 mm/tip
260-2501-A	Tipping Bucket Rain Gauge, 0.01"/tip
260-2501M-A	Tipping Bucket Rain Gauge, 1mm/tip
260-2103RGI	Rain Gauge Installation (Available only with purchase of both rain gauge and logger)

260-WS-2501	Data Logging Rain Station 0.01"/tip
260-WS-2501M	Data Logging Rain Station 1mm/tip

NOTE: Additional metric calibrations are available for the rain gauges.

<b>External input</b>	
External dry contact input (6' input cable)	Electronic solid state switch or logic driven voltage output
Range	0-3 Vdc (USB powered), 0-2.5 Vdc (battery powered)
Maximum pulse frequency	50 Hz
Maximum state, event, runtime frequency	1 Hz
Pulse, event lockout time	0-1 second in 100 mS steps
Solid state switch closure	Input Low: < 10 K $\Omega$ ; Input High: > 500 K $\Omega$
Internal weak pull-up	100 K $\Omega$
Input impedance	Solid state switch closure: 100 K $\Omega$ pull up
<b>Logger</b>	
Resolution	Pulse: 1 pulse, Runtime: 1 second, State and Event: 1 State or Event
Logging rate	1 second to 18 hours, 12 minutes, 15 seconds
Time accuracy	$\pm$ 1 minute per month at 25°C (77°F)
Battery type	CR-2032 Lithium, 3V
Battery life	1 year, typical with logging intervals greater than 1 minute and normally open contacts
Memory	128 KB (84,650 measurements, maximum)
Download type	USB 2.0 interface, USB mini-B connector
Download time	10 seconds for 128 KB
Temperature range: Logging	-20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)
Temperature range: Launch/readout	0° to 50°C (32° to 122°F) per USB specification
LCD	LCD is visible from: 0° to 50°C (32° to 122°F); the LCD may react slowly or go blank in temperatures outside this range
Size	3.66 x 5.94 x 1.52 cm (1.44 x 2.34 x 0.6 in.)
Weight	23 g (0.81 oz)
Environmental rating	IP50 (logger only)
	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)
<b>Overall</b>	
Size	2.7" x 4.3" x 1.3" (6.9 x 11.9 x 3.3 cm)
Weight	3.7 ounce (105 g)
Environmental	Waterproof enclosure