

260-WS-2501 Data Logging Rain Station

The **260-WS-2501 Data Logging Rain Station** includes an 8-inch (200 mm) tipping bucket rain gauge and an event logger which records the date and time of every bucket tip. Hourly, daily, weekly and monthly totals can be accumulated, and the data uploaded to a computer by means of a USB cable. The system is available with English or metric calibration.

Applications

- Agriculture
- Forestry
- Hydrology
- Climatology

The rain gauge is constructed of white powder-coated aluminum with black-anodized funnel. The tipping bucket mechanism activates a sealed reed switch that produces one contact closure for each tip.

The logger is housed in a clear weatherproof case.* The LCD display shows the total accumulated rainfall. Data is stored in nonvolatile EEPROM memory that retains collected data even if the battery fails.

Includes

- 260-2501-A Rain Gauge
- 260-2103 Rain Logger
- 260-950 Mounting Plate
- 190-300 2' Sensor Mast
- 190-505 3' Tripod
- 195-BHW-Kit Software with 6' (1.8m) USB cable


Ordering Information

260-WS-2501	Data Logging Rain Station 0.01"/tip
260-WS-2501M	Data Logging Rain Station 1mm/tip
260-WS-2501M.5	Data Logging Rain Station 0.5mm/tip
260-WS-2501M.25	Data Logging Rain Station 0.25mm/tip



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***NOTE:** The logger is mounted on the mast below the rain gauge (default). It can be installed inside the gauge if preferred. Please specify at the time of order.

Rain Gauge	260-2501-A	260-2501M-A
Orifice	8" (20 cm)	8" (20 cm)
Calibration	0.01"	0.25mm, 0.5mm, 1 mm
Accuracy	±2% at 5.1"/hour	±2% at 130mm/hour
Capacity	Unlimited - self emptying	
Leveling	Bubble level / adjustable leveling feet	
Switch	Magnetic reed, SPST normally open	
Output	0.1 second switch closure	
Contact maximum rating	10 watts, 0.5 amps, 200 Vdc	
Static discharge protection	Transient voltage suppressor, 27V nom, 16A	
Event Logger		
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	±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	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	
	The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)	
Computer System Requirements		
HOBOWare is not certified to run on Enterprise versions of any version of Windows and is not certified to run on Server versions of Windows. It is certified to run on Windows 7 (Pro, Ultimate and Home Premium), 8 and 8.1 (Core, Pro) and 10 (Home, Pro).		
HOBOWare is certified to run on macOS 10.14 (Mojave), 10.15 (Catalina), and 11 (Big Sur).		
HOBOWare no longer needs a Java Runtime Environment on your computer. We include the JRE in HOBOWare itself.		