

HOBO[®] MX2301A Data Logger

Temperature/RH Data Logger

The HOBO MX2301 is a weatherproof data logger with built-in temperature and relative humidity sensors. Leveraging Bluetooth Low Energy, the logger enables easy, fast set up and data download directly from your mobile device, and provides high-accuracy measurements in harsh outdoor environments.



Supported Measurements:

Relative Humidity and Temperature

Key Advantages:

- Convenient wireless setup and download via Bluetooth Low Energy (100-foot range)
- Retrieve data in hard-to-reach locations
- Visual alarms alert you to out-of-range conditions
- Compact, weatherproof housing with built-in mounting
- View current data in real time with Onset's free HOBOmobile app
- Share downloaded data easily from your mobile device
- Accuracy: +/- 0.2C° and +/- 2.5% RH

Temperatu	ure Sensor								
Range	MX2302A extern	al tem (2304)	5 internal sensors: -40 to 70°C operature sensor: -40 to 70°C (external sensors: -40 to 100°C one year	-40 to 158°F)	l cable im	nmersion in fresh water			
Accuracy	±0.25°C from -40 to 0°C (±0.45 from -40 to 32°F) ±0.2°C from 0 to 70°C (±0.36 from 32 to 158°F) ±0.25°C from 70 to 100°C (±0.45 from 158 to 212°F), MX2303 and MX2304 only								
Resolutior	0.04°C (0.072°F)							
Drift	<0.01°C (0.018°F) per year								
RH Senso	or (MX2301A, MX2302A only)								
Range	0 to 100% RH, -40° to 70°C (-40° to 158°F); exposure to conditions below -20°C (-4°F) or above 95% RH may temporarily increase the maximum RH sensor error by an additional 1%								
Accuracy	$\pm 2.5\%$ from 10% to 90% (typical) to a maximum of $\pm 3.5\%$ including hysteresis at 25°C (77°F); below 10% R and above 90% RH $\pm 5\%$ typical								
Resolution	0.01%								
Drift	ift <1% per year typ		pical						
Memory 128 KB (63,488		measurements, maximum)							
	Time: Temperatu 90% of change)	ire	Without Solar Radiation Shield	With RS1/M-RSA Solar Ra Shield	adiation	With RS3-B Solar Radiation Shield			
internal se	nsor		17 minutes in air moving 1 m/sec	24 minutes in air moving 1	m/sec	N/A			
Response 90% of ch	Time: RH (typica ange)	l, to	Without Solar Radiation Shield	With RS1/M-RSA Solar Ra Shield	adiation	With RS3-B Solar Radiation Shield			
internal se	nsor		30 seconds in air moving 1 m/sec	40 seconds in air moving	1 m/sec	N/A			
Logger									
Radio Power		1 mW (0 dBm)							
Transmission Range		Approximately 30.5 m (100 ft) line-of-sight							
Wireless Data Standard		Bluetooth Smart (Bluetooth Low Energy, Bluetooth 4.0)							
Logger Op	erating Range	-40° t	to 70°C (-40° to 158°F)						
Logging R	ate	1 sec	ond to 18 hours						
Logging N	lodes	Fixed	l interval (normal, statistics) or	burst					
Memory M	lodes	Wrap	when full or stop when full						
Start Modes		Immediate, push button, date & time, or next interval							
Stop Modes		When memory full, push button, date & time, or after a set logging period							
Time Accuracy		±1 minute per month 0° to 50°C (32° to 122°F)							
Battery Ty	ре	2/3 A	A 3.6 Volt lithium, user replace	eable					
Battery Life		2 years, typical with logging interval of 1 minute and Power Saving Mode disabled; 5 years, typical with logging interval of 1 minute and Power Saving Mode enabled. Faster logging intervals and statistics sampling intervals, burst logging, remaining connected with the app, excessive downloads, and paging may impact battery life.							
Memory		128 k	KB (63,488 measurements, ma	iximum)					
wichnory			oximately 60 seconds: may tak	e longer the further the dev	vice is from	m the logger			
-	ry Download Time	eAppro			Logger housing: 10.8 x 5.08 x 2.24 cm (4.25 x 2.0 x 0.88 in.) External temperature sensor diameter: 0.53 cm (0.21 in.) External temperature/RH sensor diameter: 1.17 cm (0.46 in.)				
-		Logg Exter	er housing: 10.8 x 5.08 x 2.24 nal temperature sensor diame	ter: 0.53 cm (0.21 in.)					
Full Memo		Logg Exter Exter	er housing: 10.8 x 5.08 x 2.24 nal temperature sensor diame	ter: 0.53 cm (0.21 in.) ameter: 1.17 cm (0.46 in.)	sales@	GlobalTestSupply.c			
Full Memo	2	Logg Exter Exter	er housing: 10.8 x 5.08 x 2.24 nal temperature sensor diame nal temperature/RH sensor dia	ter: 0.53 cm (0.21 in.) ameter: 1.17 cm (0.46 in.) tSupply.com		GlobalTestSupply.c			

NEMA 6 and IP67

CE

The CE Marking identifies this product as complying with all relevant directives in the European Union (EU). This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

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