Turn-Key Weather, Your Way

The MK4-C comes equipped with an integrated cellular modem, high-power photovoltaic panel, battery, and intelligent power management – no external power source, electrical grid or communication device required. The MK4-C is an all-inone unit that mounts in minutes on a single mast for the utmost in functionality, convenience, and reliability. The MK4-C features an aspirated fan built right into the unit, increasing temperature and relative humidity (RH/T) accuracy up to 50%. Ships fully assembled and calibrated for quick setup in minutes. On site the station's status is easily confirmed from a distance with the highly visible status light.

Other companies' cellular options often mean getting locked into expensive, unmodifiable data plans. RainWise gives you a **low-cost data rate with the first year of data for free** to fit your needs and budget. Access your data, view graphs, and build reports on the RainWise.Net personal weather station dashboard, and take your weather with you on the go with the free RainWise.Net iOS and Android app. An API is also available upon request.

The MK4-C manages to combine **one-click ordering of the base system** with an easyto-customize **modular architecture**, allowing you to add additional sensors at any time in the future. **Future expansion sensors available** include **Ultrasonic wind sensor** and **agricultural sensors**.

Measurements:		Features:			
»	Temperature	»	Full suite of meteorological measurements		
»	Relative Humidity	»	All-in-one design for 20-minute setup		
»	Wind Speed	»	Integrated Cellular modem with cloud connected		
»	Wind Direction		data plan for under \$50/year		
»	Dewpoint	»	Intelligent Power Management ensures reliable reporting even in short day and cloudy conditions		
»	Barometric Pressure	»	High-power photovoltaic panel		
»	Rainfall	»	Standard 24-hr aspirated fan		
		»	Highly visible LED status lights		
		»	One free month of Rainwise.Net Pro.		

- » iOS and Android App
- » API available.

Transform weather uncertainty into operational confidence with the accuracy and reliability of RainWise. Request a Quote Today!

Eric Rollins erollins@rainwise.com

www.rainwise.com

Compact, modular, and upgradeable all-in-one weather station designed to perform in rugged climates and adapt to quickly changing industry landscapes.





SENSORS	Accuracy (+/-)	Resolution	Range	Notes	
Wind Speed	5% or 1 mph between 1 to 57 mph	0.1 mph 0.1 knot 0.1m/s 0.1 km/hr	1 to 100 mph 1 to 86.9 knots 1 to 44.7 m/s 1 to 160.9 km/hr	Wind speed is measured continuously and stored in station memory as a series of 2 second averages. The reported wind speed is the average over the 15 minute logging interval. The highest measured speed during the logging interval is reported as the gust value.	
Wind Direction	2°	1°	1° ~ 360°	Wind direction is measured continuously and stored in station memory as a series of 2 second averages. The reported wind direction is the average scalar direction over the 15 minute logging interval. The gust direction is the average scalar direction for the 2 second record corresponding to the gust value.	
Temperature	0.45° F 0.25° C	0.1° F 0.1° C	-40° to 140° F -40° to 60° C	Temperature is measured once per minute. The reported temperature is the average value for the 15 minute logging interviliation High and low temperatures are based on the 1-minute readings.	
Relative Humidity (typical)	1.5% between 0 - 80%	1%	0 to 100%	See fig S for accuracy tolerance over the RH range. Humidity is measured once per minute. The reported humidity is the average value for the 15 minute logging interval. High and low RH are based on the 1-minute readings.	
Absolute Pressure	1.5 mbar/hPa 0.044 inHg 1.1 mmHg	0.1 mbar/hPa 0.01 inHg 0.1 mmHg	600 to 1100 mbar/hPa 17.72 to 32.48 inHg 450.0 to 825.1 mmHg	Pressure is measured once per minute. The reported pressure is the average value for the logging interval. High and low pressures are based on the 1-minute readings.	
Rain Rate	5% at 2"/hr (5% upgradeable to 2%)	0.01 in/hr 0.1 mm/hr	0 to 7.8 in/hr	Rainfall is measured continuously in 0.2 mm increments (tipping bucket calibration volume)	

Relative Humidity (typical)





SYSTEM

Operating Environment				
Temperature:	-40° to 140° F (-40° ~ 60°C)			
Dimensions	11"x23"x36" (28 x 58 x 91 cm)			
Weight	8.9 lbs (4.04 kg)			
Certifications	FCC, CE, IC			
Data Cache Capacity	365 Days			
Logging Rate	Every 15 minutes (See sensor specification notes for details)			
Cellular Transmission Rate	Every 15 minutes			
Battery Type:	Non-Spillable 4V 4.5Ah AGM sealed lead-acid 1A peak, 12 mA typical			
Battery Life:	2 to 5 Years typical			
Call Modem Type:	CAT-M / NB-IoT			
Solar Panel Type:	mono crystaline 7V 2.3 W			
Warranty	2 Years			

STATION OPERATING MODES	Standard	Power Saver	Logging	Hibernate	Recharge
Pottom Status	Battery	Low Battery	Critically Low	Critically Low	Critically Low
Battery Status	Charged		Battery	Battery	Battery
Aspirated Sensor Measurement	1 min	2 mins	5 mins	None	None
Frequency					
Cellular Data Transmission	15 mins	15 mins	21 brs	Nono	Nono
Frequency	quency		241115	None	None
Panel LED Color	Green	Blue	Red	Red	None
LED Blink Frequency	10 sec	10 sec	10 sec	20 sec	None



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