

# Specifications

SENSORS	Accuracy (+/-)	Resolution	Range	Notes
<b>Wind Speed</b>	larger of 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.
<b>Wind Direction</b>	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.
<b>Temperature</b>	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 interval. High and low temperatures are based on the 1-minute readings.
<b>Relative Humidity (typical)</b>	1.5% between 0 - 80%	1%	0 to 100%	See fig T 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.
<b>Absolute Pressure</b>	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.
<b>Rain Rate</b>	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)

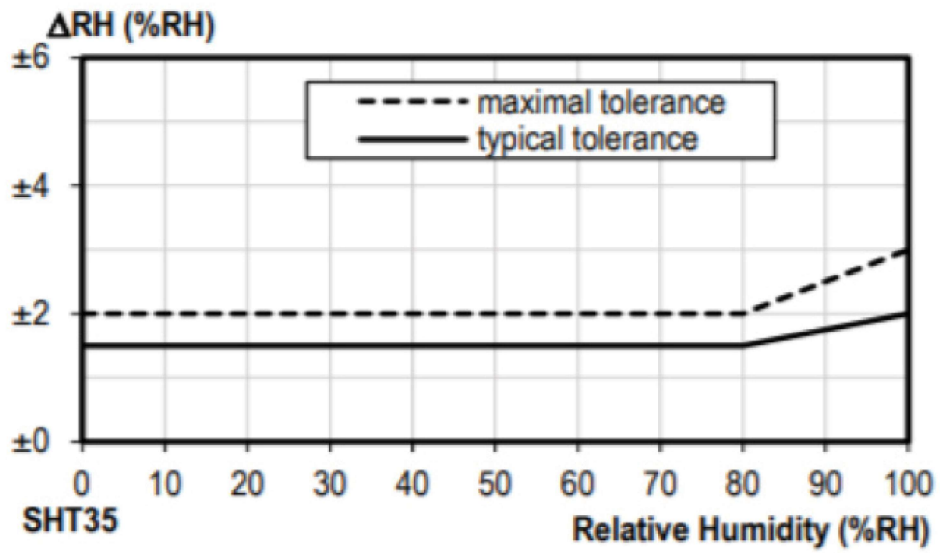


Figure T

## SYSTEM

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

STATION OPERATING MODES	Standard	Power Saver	Logging	Hibernate	Recharge
<b>Battery Status</b>	Battery Charged	Low Battery	Critically Low Battery	Critically Low Battery	Critically Low Battery
<b>Aspirated Sensor Measurement Frequency</b>	1 min	2 mins	5 mins	None	None
<b>Cellular Data Transmission Frequency</b>	15 mins	15 mins	24 hrs	None	None
<b>Panel LED Color</b>	Green	Blue	Red	Red	None
<b>LED Blink Frequency</b>	10 sec	10 sec	10 sec	20 sec	None