

Point to Point Range- what to expect

The “normal” range for Pod-to-Pod or Pod-to-Gateway communication is:

	Station-to-Station*	8-Pod Mesh*
Indoors - Hospital	10-15m (30-50ft)	80-120m (260-400ft)
Indoors – Food Plant	20-30m (65-100ft)	160-240m (520-780ft)
Indoors – Warehouse	50-60m (165-200ft)	400-540m (1300-1800ft)
Indoors – Mfg Plant	20-30m (65-100ft)	160-240m (520-780ft)
Outdoors	80-100m (260-330ft)	640-800m (2100-2600ft)

To measure the quality of the signal, use the “Link Quality” This feature is based on the signal error rate of the last receive packet.

This measurement is sent by each Pod with every data sample.



Link Quality	99.00 %				
Supply Voltage	3.56 Volts				
Refrigeration Pod (Model A1-02) 12/14/06 04:13:30 AM					
Ambient Room Temp - 1	79.96 F				
Compressor Temp (RTD)	113.03 F				
Freezer Section Temp (Thermocouple)	7.46 F				
Link Quality	99.00 %				
Power Consumption	61.53 Watts				
Refrigerator Temp (Thermistor)	42.65 F				
Supply Voltage	4.87 Volts				
Weather Pod (Model A1-01) 10/23/06 11:36:30 AM					

The link quality is displayed with other sensor data as a percentage range from 0-100%. See FAQ’s for more information.

Alarms can be set on the link quality. (Note that these alarms are in addition to loss-of-signal alarms.) If this number is not 99-100%, then there are errors in the data transmission.

Accsense also has an Administration Tool – we can see the time from Pod to Server. This means we can see the time stamp from the data point to when the server receives that data.

* Individual results may vary.

Antenna Radiation

For optimal signal strength, note the radio signal for the antenna on your pod or gateway radiates in a circular pattern, horizontally.

- If you desire your signal to radiate horizontally, (in a circular pattern) place the antenna straight up, as seen in Figure 1.
- If you desire the signal to radiate vertically, place the antenna in a "sideways" or horizontally, as see in Figure 2.

Figure 1

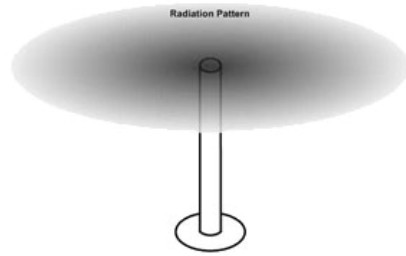


Figure 2

