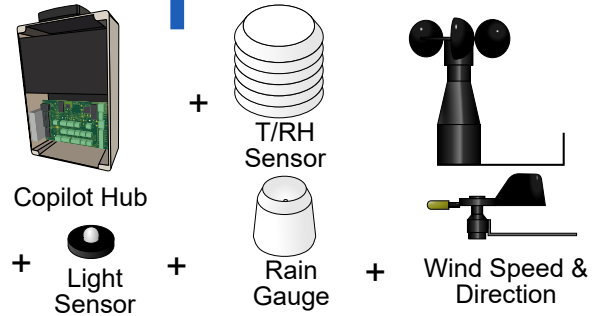


Climate Copilot



CLIMATE copilot



Data Transmission Unit

Type	Copilot Hub
Power supply	12V 7Ah SLA with solar charger
Telemetry	Multi-band modem Cat.M,NB-IoT,LTE,2G
Logging	10m readings and upload (default)
Alert option	High/Low temp. alerts via SMS, up to 3 numbers.

Rain Gauge

Type	Small tower tipping spoon
Resolution	1mm
Maximum intensity	700mm/h
Accuracy	±5%

Temperature Sensor

Type	PT100 RTD
Range	-40—60 °C
Accuracy	±0.2°C

Humidity Sensor

Type	HIH-4000
Range	0—100% relative
Accuracy	±3.5 %RH

Wind Speed

Type	Reed contact
Range	1—90 mph
Resolution	30" wind run
Accuracy	±5%

Wind Direction

Type	Zero friction Hall effect
Range	0—360°
Resolution	0.025°
Accuracy	±0.5%

Light Sensor

Type	PAR (Quantum) (Global radiation option available)
Range	0-2500 μMol/m ² s
Accuracy	±5%

The Climate Copilot station is our general solution to climate monitoring, and can send SMS temperature alerts as required.

		Soil CoPilot	Field CoPilot	Coir CoPilot	Runoff CoPilot	Climate CoPilot
Data Transmission Unit	MDL-3 Data Logger	—	✓	✓	✓	✓
	Logger Expansion Board	—	<i>Depending on sensors</i>	✓	<i>Depending on sensors</i>	<i>Depending on sensors</i>
	Interface Board	✓	✓	✓	✓	✓
	2G/4G Modem (<i>GPRS/LTE Cat.M/NbIoT</i>)	✓	✓	✓	✓	✓
	12V 7Ah SLA Battery	✓	✓	✓	✓	✓
	Solar Panel	10W	10W	20W	20W	10W/20W (<i>option</i>)
	A/C 12V Power Supply	—	—	<i>Optional</i>	<i>Optional</i>	—
Moisture	Sentek Drill & Drop RS232 Probe 60cm default, 30/90/120cm also available <i>Soil Moisture; Soil temperature; Volumetric Ion Content (option)</i>	✓	✓	—	—	—
	Choice of either:	—	—	Up to 9x	—	—
	• Sentek Drill & Drop SDI 12 Probes <i>Soil Moisture; Soil temperature; V.I.C. (option)</i>			Up to 3x		
	• Single point (10cm)			1x		
• 30cm						
• 60/90cm						
Or:			Up to 9x			
	• DeltaT WET150 <i>Soil Moisture; Soil temperature; EC</i>					
Rain	Small Tower Rain Gauge	—	✓	—	—	<i>Optional</i>
Temp/RH	Temperature & Relative Humidity Sensor	—	<i>Optional</i>	✓	<i>Optional</i>	<i>Optional</i>
EC/pH	EC Sensor with Amplifier	—	—	<i>Optional</i>	<i>Optional</i>	—
	pH Sensor with Amplifier	—	—	<i>Optional</i>	<i>Optional</i>	—
Irrigation/Runoff	Irrigation Applied - Water Meter	—	—	✓	✓	—
	Runoff Collector - Tipping Spoon	—	—	✓ <i>Choice of solution</i>	✓ <i>Choice of solution</i>	—
	Runoff Collector - Through Meter (<i>Whole trough</i>)	—	—			
Light	Light Sensor	—	<i>Optional</i>	<i>Optional</i>	<i>Optional</i>	<i>Optional</i>
Leaf Temp	Leaf Temperature Sensor	—	—	<i>Optional</i>	<i>Optional</i>	<i>Optional</i>
Wind	Wind Speed Sensor	—	<i>Optional</i>	—	—	<i>Optional</i>
	Wind Direction Sensor	—	<i>Optional</i>	—	—	<i>Optional</i>
Automation	Cable free connection to irrigation controller	—	—	<i>Optional</i>	—	—