

ArborSense S1



Highest I/O density in ArborLink



SDI-12



Up to 3× isolated digital inputs



Long-range LPWAN · Bluetooth · GNSS



RS232 / RS485 Modbus



3× voltage + 3× 4–20 mA



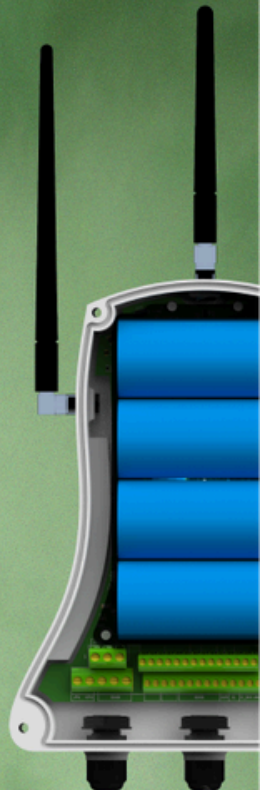
5 / 12 / 24 V sensor excitation



Solar + LiFePO4 autonomy



The farm's universal sensing node — bring soil, weather, filter, flow, and tank instruments onto the long-range network with Modbus, SDI-12, rich analog and digital inputs, and controlled sensor power — then watch them live on A.I.M with ArborGate.



One node. Many instruments.

The highest I/O density in the ArborLink lineup — dual Modbus, dual SDI-12, three voltage channels, three 4–20 mA loops, and up to five optically isolated digital inputs — so mixed sensor estates do not need a custom board per probe type.

From sensor to decision

Measure → Connect → Monitor → Alert → Automate. Bring soil moisture/EC/temperature clusters, weather stations, filter feedback, tank level, and flow into schedules you can actually trust.

Solar field operation

12–24 V solar input (10–20 W panel class), MPPT charge management, 4S LiFePO₄ 6500 mAh, and an AC charging option keep monitoring online where wiring and power are expensive.

Specifications

General

Spec	Value
Product name	ArborSense S1
Product code	AM-S1
Role	Universal multi-protocol field sensor / monitoring node
Category	Farm Operations Platform
Suggested price	Inquire

Power & energy

Spec	Value
Solar input	12–24 V
Panel class	10–20 W
Charge management	MPPT-based
Battery	4S LiFePO4 · 6500 mAh
AC option	AC charging option
Deployment	Solar-first field monitoring · weather/filter/soil masts

Where it works

Spec	Value
Soil monitoring	Soil moisture, EC, and temperature probe clusters
Weather stations	Connect weather instruments to the field network
Filter stations	Monitor differential pressure and flush feedback
Tank & reservoir monitoring	Track level and related field measurements
Flow monitoring	Connect flow meters and pulse devices
Industrial instruments	Integrate 4–20 mA, voltage, Modbus, and SDI-12 devices