Application Note // Precision Agriculture with EpiSensor

IoT Solutions Partner

EPISENSOR

Probe Temperature Sensor

Battery powered (up to 10 years battery life) with one or two channels, various probes types available

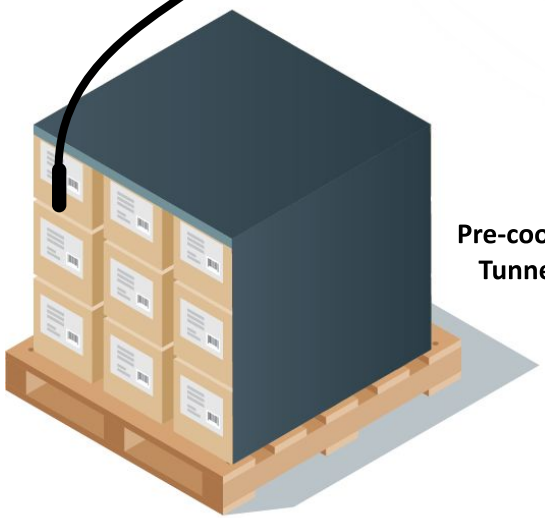
Temperature
(TES-2X)

Data Logging

Store up to 70,000 data points (2 years @ 15 min intervals) at the edge

Calibration

Full field calibration capability with offsets stored on the node



Pre-cooling Tunnels

Temperature & Humidity
(HTS-1X)

Environmental

Add environmental sensors for temperature and humidity monitoring and accurate degree-day adjustments

Monitor electricity usage for the full growing or pre-cooling operation

Live Stream

Send data to the server every second, or 'only when a change is detected' with delta reporting mode

Electricity
(ZEM-6X)

Multiple Parameters

Monitor voltage, current, power factor, frequency, kWh, kVAh & more.

IP67 (NEMA 4) Enclosure

Water and dust-proof polycarbonate enclosures as standard

Expand Easily

Add any other EpiSensor nodes for monitoring 4-20mA, 0-10V, Modbus, etc.

EpiSensor Gateway
(NGR-30-5)

Based on Dell Edge Gateway 3002

to local systems via:

- Modbus TCP
- REST API
- OPC UA
- other protocols using EdgeX Foundry

to private / public cloud

Network

Onboard 3G / 4G cellular, Wi-Fi and dual Ethernet (with PoE) for wide area network connectivity.