

Core Monitoring Capabilities

Measurements

- Air Temperature
- Wet Bulb Temperature
- Dew Point
- Humidity

Accuracy

±0.5°C / ±3% RH

Operating Range

-40°C to +80°C

Communication & Network

LoRa Protocol

Protocol:	Augos Proprietary LoRa
Encryption:	AES128
Range:	up to 15km
Frequencies:	433/868/915MHz

Gateway Features

- Bi-directional control
- Real-time device management
- 60-day local data storage
- Multiple connectivity options
- ~100 devices per gateway

Power & Battery System

Battery

Type:	2X 18650 LiPo
Capacity:	7000mAh
Runtime:	~2 days

User-replaceable, recommended replacement every ~2 years

Solar Charging

Panel Type:	Monocrystalline
Power Output:	2W

Power Draw

Standby:	20µA (80mW)
Active:	190mA (760mW)
Auto power conservation below 3.5V	

Beacon Light Module

LED Specifications

LEDs:	2X High-Intensity
Beam Pattern:	~120° vertical
Beam Spread:	180° horizontal
LED Life:	>50,000 hrs

Operation

Voltage:	12V DC
Visibility:	Several hundred meters
Modes:	Steady/Flashing
Duty Cycle:	Configurable

Technical Details

Sensor Interface

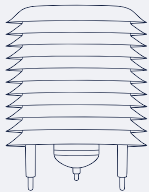
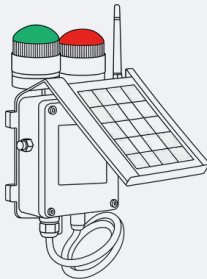
Supply voltage:	12-24V DC
Output:	RS485
Add-ons:	11-plate Radiation Shield

Gateway Power

AC Options:	220VAC/110VAC
DC Options:	12VDC/24VDC
Connectivity:	LoRa, WiFi, Ethernet

Environmental Protection

IP Rating (Sensor, Enclosure, Beacon LEDs):	IP65
Temperature Range:	-20°C to +55°C
UV Resistant:	Yes
Certifications (Sensor, Light):	CE



Contact Us

Protecting your yield starts with a simple conversation.



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Aerofrost Guide

Frost Detection System

