AER-1 | Outdoor Aerial Snow & Ice Sensor
AER-WM | Aerial Snow & Ice Sensor Wall Mount Bracket

Features & Benefits

- Electronic Aerial Snow and Ice sensor
- Compatible with Frio S1-A-0002 Heat Trace Controller
- Requires 24VAC power supply (SM-JB-1)
- Can be mounted using the metal rust-free wall mount bracket (AER-WM) or on a vertical piece of conduit.
- Kit includes anti-nesting bird spikes and plastic protective cover to limit summer dust buildup.
- Includes 33ft. 4-wire cable (can be extended up to 1000 ft. with 4-wire shielded cable, 18-AWG or larger)

Description

The AER-1 is a reliable aerial snow and ice sensor. Installed outdoors it measures temperature, detects snow, and sends a signal to the Frio S1-A controller which activates the heating system.

The AER-1 is connected to the Frio S1-A controller via a junction box (SM-JB-1) with a 33 feet (10 m.), 24V 4-wire cable (Up to (6) total GUT-1 or AER-1 snow sensors may be connected to a single SM-JB-1).

The plastic "igloo" shape design and heated sensor face help to assure reliable snow/ice detection by preventing snow from accumulating around the sensing area. The AER-1 includes four anti-nesting spikes that can be placed holes on the top side of the sensor to keep birds away. The included sensor cap helps to keep the sensing area clean from dust and dirt during summertime when the snow melting system is not in use.

The AER-1 can be mounted on a vertical piece of conduit or by using the optional wall mount bracket (AER-WM).

The Frio S1-A system can work with up to (6) total PVT, GUT-1 or AER-1 snow sensors.

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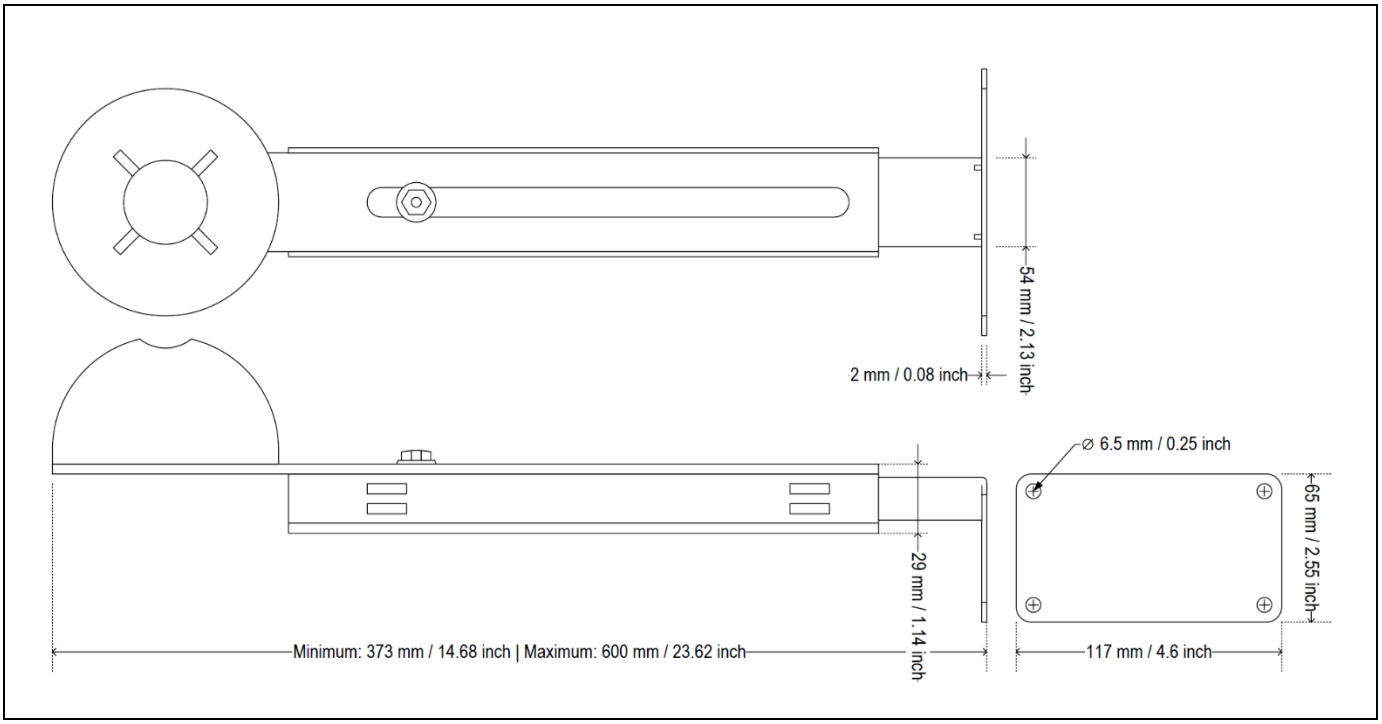
Dimensions



Technical specifications

Enclosure Protection	IP65, Outdoor Mounting	**Supply**	24VAC±20%,50-60Hz
Entries	33 ft. (10 m) Four wires cable: 2x18AWG power supply wires 2x22AWG communication wires	**Communication**	RS485
		Operating Temperature	-40°F to 122°F (-40° C to 50°C)
Material	Plastic: ASA WR9160 (AER-1) Metal: Galvanized cold rolled (AER-WM)	**Storage Temperature**	–50°F to 158°F (–40°C to 70°C)

The performance specifications are nominal and conform to acceptable industry standards. For applications in conditions beyond these specifications, consult Frio Controls or representative. Frio Controls shall not be liable for damages resulting from misapplication or misuse of its products.

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