



# DS SERIES

## SNOW MELTING / ROOF DE-ICING

### Aerial Mounted Controller with Sensors

### DESCRIPTION

The DS series of sensors and controllers provide a balance between price, sophistication, and control capabilities and capacities. Each unit is housed in a sturdy NEMA 3R enclosure rated for outdoor use. All internal electronic components are specified for -40 °C to 85 °C operation. All line voltage units are ETL UL Standard 508/CSA C22.2 No. 14 Listed.

All DS units operate by detecting environmental conditions through a base mounted temperature sensor and a heated precipitation sensor. When rain or snow land on the –evaporates the moisture, clearing the sensor.



### FEATURES

#### Operating temperature

- -40 °F to 185 °F (-40 °C to 85 °C).

#### Trigger temperature Point

- Adjustable from 1 °C (34 °F) to 6 °C (44 °F).
- Selectable low temperature cut-off with unique “Recover” mode.

#### Programming

- Adjustable precipitation sensitivity.
- Adjustable delay Off timer with 30-90-minute or 2–6-hour ranges.

#### Construction

- NEMA 3R.

#### Display

- Power and activation light indicator.

#### Dimensions (H-W-D)

- 4¾” (120 mm) x 7” (178 mm) x 2¾” (70 mm).

#### Installation

- Easy installation with access to all electronics by removing 4 screws.
- Screw 3/4” base conduit hub onto free-standing conduit or use mounting holes in each corner of the enclosure for wall mounting.
- Install controller in a clear space that will receive precipitations.

Note: It is recommended to mount a weatherproof junction box below the controller to make electrical connections.

#### Warranty

- 2- year limited warranty free from manufacturer defect. Visit [www.britech.ca](http://www.britech.ca) for limited warranty details.

### MODELS

PRODUCT #	DESCRIPTION	VOLTS	AMP.
DS-2C	The DS-2C is the base model of the DS series. It is primarily designed for automatic control of driveway, sidewalk, and other pavement snow melting applications, satellite antenna/broadcast tower de-icing and can be used as a sensor for larger control systems. The unit may also be used as a stand-alone rain sensor/controller for high frequency satellite rain diversion applications and intake air handling.	100-277	30









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	PRODUCT #	DESCRIPTION	VOLTS	AMP.
	DS-4C	The DS-4C is the big brother of the DS-2C. It is primarily designed for larger, more complex satellite antenna de-icing systems, especially those employing rain diversion. With its dual 30A switching capacity it can also be used for higher power pavement snow melting and tower applications.	100-120 200-240	2 X 30
	DS-5C	The DS-5C is essentially a DS-2C fitted with a dual 30 A @ 277VAC load control contact set. It is primarily designed for larger satellite antenna/broadcast tower de-icing and pavement snow melting applications. Specifically, any job that a DS-2C can perform the DS-5C can also perform, but with double the load handling capability.	100-120 200-240	2 X 30
	DS-8C	The DS-8C is primarily designed for gutter, downspout and roof ice melting and small satellite antenna de-icing. The totally sealed, low voltage, remote mount precipitation sensor allows the user to install the small sensor head in a downspout, the back of a gutter, or at the end of an antenna boom, up to 10 ft. away, while keeping the main controller in a more convenient or protected outdoor location.	100-277	30
	DS-9C	The DS-9C is the preferred sensor for high-capacity roof & gutter, and tower de-icing systems. The unit operates at low voltage and can withstand immersion in water. It does not need to be connected to a control panel and can be operated in manual or automatic mode. The DS-9C precipitation sensor is connected to a 10 ft. cable and intended for remote mounting, either on a feed boom for satellite antenna de-icing or in a gutter or downspout for roof de-icing.	100-277	2 X 30




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PRODUCT #	DESCRIPTION	VOLTS	AMP.
 DS-224C	<p>The DS-224C is an advanced low voltage version of the DS-2C. It is primarily designed for hydronic pavement snow melting applications and battery/solar powered railroad deice and lubrication control. The 22-28VAC/VDC supply means less expensive wiring, no requirement for conduit, and lower installation costs.</p>	22-28 VAC/VDC	30
 DS-824C	<p>The DS-824C is an advanced low voltage version of the DS-8C. It is primarily designed for low voltage gutter, downspout, and roof ice melting applications. It can also be used on existing buildings where retrofitting high voltage wiring would be too difficult. The 22-28VAC/VDC supply means less expensive wiring, no requirement for conduit, and lower installation costs. The precipitation sensor is connected to a 10 ft. cable and intended for remote mounting, either on a feed boom for satellite antenna de-icing or in a gutter or downspout for roof de-icing.</p>	22-28 VAC/VDC	2 X 30
 EX-50	<p>The EX-50 kit provides a reliable, well-sealed method of extending the installation of a DS-8C sensor, allowing convenient and accessible location of the controller and optimal positioning of the remote precipitation sensor. Extend the standard 10 ft. sensor cable up to an additional 50 ft.</p>	--	--