

Environmenta Technology, Inc. (ETI)

Satellite Antenna Deicing Systems **CLEAR SIGNAL[®] DEICING SYSTEM**

Features & Benefits

- Reliable satellite communications during the winter.
- Automatic operation
- Built-in fault protection
- Both deicing and anti-icing available
- Ultra reliable heater technology
- Lowest purchase and operating costs
- Easy field or factory installation
- 15 year maintenance free design life



DESCRIPTION

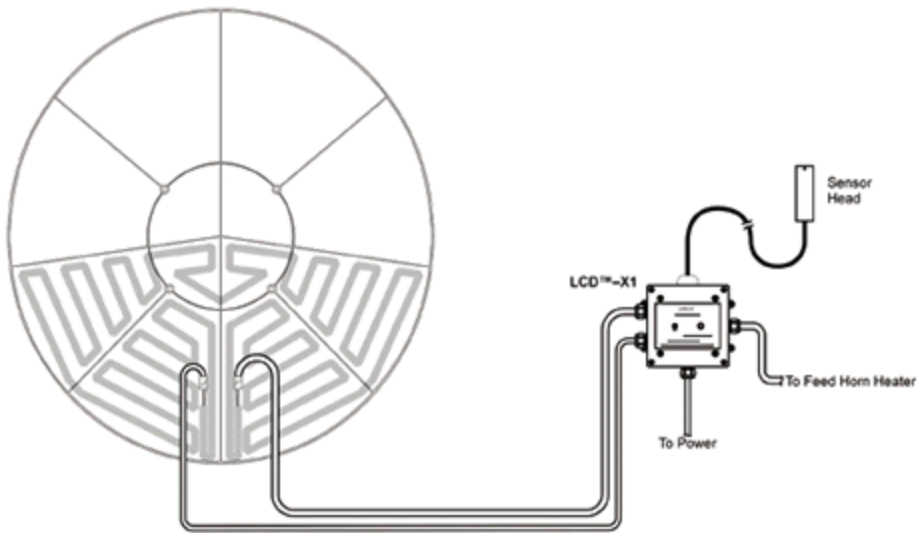
Clear Signal[®] deicing systems provide high performance and reliability with exceptionally low purchase and operating costs. All systems include a Snow Switch[®] for reliable automatic control along with main reflector, sub-reflector and feed heaters and interconnecting wiring. A unique Clear Signal[®] deicing systems is engineered for each antenna to insure optimum performance and installation simplicity.

Clear Signal[®] deicing systems accommodate antennas through 10 meter apertures. Standard nominal power densities include 40 watts per square foot for deicing and 140 watts per square foot for anti-icing. The supply voltage depends on the power required and customer preference. Typical voltages include 24, 100, 120, 200, 230 and 240 volts single phase and 208, 240, 277, 345, 416 and 480 volts 3-phase.

Heaters use high temperature and mechanically robust Tefzel® insulation to insure a long trouble-free heater service life of at least 15 years. With the exception of improved mechanical properties, Tefzel® is very similar to Teflon®. A shield braid provides mechanical and electrical protection in the event of heater damage. For heat transfer and ease of installation, the CSA Certified and NRTL Recognized heaters are sandwiched between layers of self-adhesive aluminum foil. Integral weather resistant connectors further simplify heater installation. High performance heaters make anti-icing power densities of 140 watts per square foot practical while maintaining the same reliability as the standard 40 watts per square foot power density.

Clear Signal® deicing systems are supplied with Snow Switch® controls for reliable automatic control and safety. A Snow Switch® control panel or controller provides patented integral ground fault circuit interrupter (GFCI) capability as required by the National Electrical Code (NEC) electrical and shock protection.

[See the list of antenna systems we are already deicing!](#)



Typical Installation

Aperture	Manufacturer's Model No.	Manufacturer
0.6m	60 cm	DX Technologies
0.6m	PRT-60 UNVS/NPRM	Patriot
0.74m	DirecPC	Prodelin
0.9m	Type 900 Tx	Channel Master
0.96m	Type 960	Channel Master
0.98m	Series 1981	Prodelin
1.0m	PRT-100 NPRM/AZ	Patriot
1.2m	Type 121	Channel Master
1.2m	Type 123	Channel Master
1.2m	PRT-120 NPRM/AZ	Patriot
1.2m	Series 1125	Prodelin
1.8m	True Focus	Andersen Manufacturing
1.8m	Type 180	Channel Master
1.8m	PRT-180 OF	Patriot
1.8m	PRT-180 AZ/PLR	Patriot
1.8m	Series 1183/1184	Prodelin
2.4m	ES24	Andrew
2.4m	Type 243	Channel Master
2.4m	PRT-240 AZ/PLR	Patriot
2.4m	TXFCC-240KUS	Patriot
2.4m	Series 1244	Prodelin
2.4m	Series 1251	Prodelin
2.4m	Series 1252/1253	Prodelin
2.4m	DPVC/DPVK	Vertex
2.8m	PRT-280 AZ/PLR	Patriot
3.0m	True Focus	Andersen Manufacturing
3.0m	3.0m Polar Mounted	Comtech
3.0m	Series 1304-1305	Prodelin
3.1m	PRT-310 AZ/PLR	Patriot
3.4m	Series 1344-1345	Prodelin
3.6m	ES36PK-1	Andrew
3.6m	Model 8136	Scientific Atlanta
3.7m	ES37PK/MPK	Andrew
3.7m	3.7m AZ/EL	DH
3.7m	3.7m	Eagle
3.7m	C37T	NWIEE
3.7m	Series 1374-1375	Prodelin
3.8m	True Focus	Andersen Manufacturing
3.8m	3.8m Polar Mounted	Comtech
3.8m	PRT-380 AZ/PLR	Patriot
3.8m	Series 1383	Prodelin
4.5m	ES45P-1	Andrew
4.5m	ES45T-T-1	Andrew
4.5m	ESA45AA-1/AAPT-1	Andrew
4.5m	4.5m E.S. Antenna	ECIL