

TRECAN SNOWMELTER WEB-APP 1.0

General Description:

The Trecan Snowmelter Web-App is a combined information system incorporating data sent from a Trecan Snowmelter to a Trecan server. The Trecan server hosts the database application and WEB based user interface. While the Snowmelter is powered on and has an Internet connection, the Snowmelter sends data on both a timed and event basis. Once the data has been received and stored in the database in a near real time basis, the customer and the Trecan Service Department can monitor the status of the Snowmelter.

The capability provided by remote data communications with the Snowmelter also allows for remote trouble shooting and Snowmelter software upgrade (if required and when available).

Remote Data Communications:

Each Snowmelter includes a cellular data modem (with optional integrated GPS module). Depending on the available cellular providers, the cellular modem operates on one system, either the CDMA/1XRTT or GSM/GPRS/EDGE network. Once the Snowmelter is powered on, the cellular modem acquires a dynamic Internet address, and then functions as a network router, allowing data from the Snowmelter to travel via the Internet to the Trecan Web-App server.

Remote Data:

A partial listing of data sent from the Snowmelter to the Server follows:

Engine Set Point	Blower Set Point	Burner 1 Fault Code	Burner 1 Total Hours
Engine RPM	Blower RPM	Burner 2 Fault Code	Burner 2 Total Hours
Engine Oil Pressure	Hydraulic System Pressure	Burner 3 Fault Code	Burner 3 Total Hours
Engine Coolant Temperature	Hydraulic Fluid Temperature	Burner 4 Fault Code	Burner 4 Total Hours
Engine Hours	Blower Hours	Burner 1 Current Operating Time	Burner 1 High Fire Hours
Fuel Level	Melting Tank Water Temperature	Burner 2 Current Operating Time	Burner 2 High Fire Hours
System Battery Voltage	Warning Code	Burner 3 Current Operating Time	Burner 3 High Fire Hours
Engine Fault Code	PLC Battery Voltage	Burner 4 Current Operating Time	Burner 4 High Fire Hours
Engine Diagnostic Trouble Code	PLC Temperature	Snowmelter Operating Mode	Water Level
Snowmelter Serial Number	Operator Display Temperature	GPS Location (if equipped)	Operator Interface Activity

Web Site:

The Web-App server requires the user (Customer's one or more pre-authorized employees) to login to gain access to the information pertinent to all of the Customer's Snowmelters. After login, the user is presented with a listing (by serial number) of the Snowmelters registered to the Customer. This list allows the user to select and view the near real time and historical data for a specific Snowmelter. The Date and Time for each message received is also recorded allowing for further analysis and trending of conditions leading up to an event. If a Warning or Fault Code is generated by the Snowmelter, the Web-App user can view the detailed code description and potential solutions.

Annual Subscription:

After the warrantee period has expired, an annual subscription will be required to maintain this service. The annual subscription will cover the cost of maintaining a cellular data account with a cellular provider, internet service, server hardware and continued additions and improvements to the Trecan Snowmelter Web-App. The annual subscription price is 450.00 Canadian Dollars per Snowmelter per year. [Please reference Trecan part number **9400001**]