

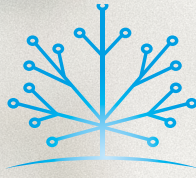
DATA CER™
sugarbush automation



SUGAR BUSH MANAGEMENT SYSTEM



LAPIERRE
naturally innovative



DATA CER™
sugarbush automation



ALWAYS ON THE LOOKOUT

THE MOST EFFECTIVE MANAGEMENT SYSTEM

AN ACCURATE PICTURE OF **MAPLE SYRUP INDUSTRY 4.0**

DATA CER is a team dedicated to developing information technologies for maple syrup production.

Our goal: to communicate, locally or via the internet, accurate data in real time on the key performance indicators of your sugar bush.

DATA CER allows for optimal management of labour and priorities thanks to access to essential information about the sugar bush.

DETECTION AND **SPEED OF INTERVENTION**

The DATA CER system detects productivity losses in real time and allows you to intervene quickly and precisely where needed.

- Save time and energy
- Reduce the impact of seasonal stress
- Target and fix leaks wisely
- Prevent overflows from your tanks
- Get a fast return on investment
- Maintain a better quality of life

24/7 MONITORING **OF YOUR OPERATIONS**

DATACER enables constant monitoring of your sugar bush. Different types of wireless transmitters transmit data via radio waves to an autonomous controller that collects and processes the information 24/7. Get personalized statuses, reports, and alerts in real time:

- vacuum level at the end of the master line;
- water pump pressure (low pressure);
- temperatures at the ends of the lines;
- vacuum level at the extractor;
- tank and silo level;
- indoor and outdoor temperature at a pumping station;
- vacuum pump/water pump operational status;
- modulation and drainage valve opening.



NEW

- **Solar vacuum transmitters: reduced handling time because the network can be started and stopped remotely. In addition, the rechargeable batteries need to be changed less frequently compared to transmitters that use alkaline batteries.**
- **Monitoring of the high pressure of a concentrator.**
- **Average sap flow rate/hr, sap volume/day, sap volume/day/tap, and flow trend.**

The DATACER station also allows for remote manual control of equipment, such as starting/stopping pumps and opening/closing valves.

IN PERFECT CONTROL OF **YOUR PUMPING STATIONS**

Pumping stations are the nerve centres of any sugar bush. A breakdown or an overflow very quickly translates into a loss of yield and money.

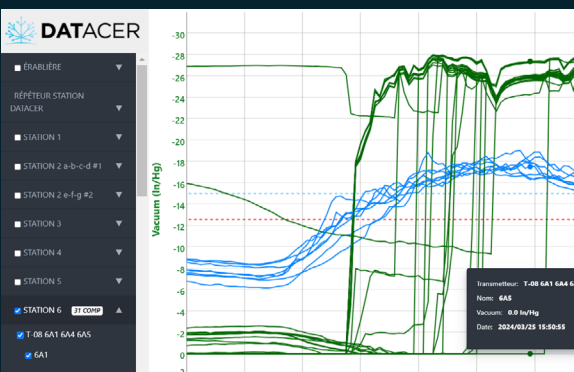
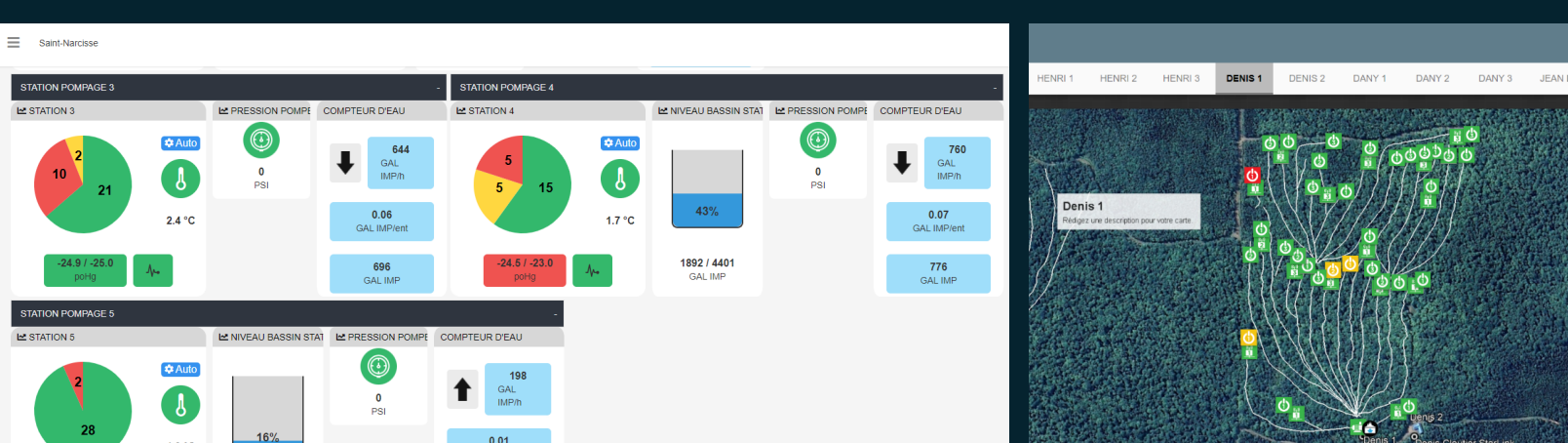
Avoid these losses by automating the control of your pumping station equipment. With the DATACER station, you will be able to:

- Control the vacuum pump start and stop according to the outdoor temperature.
- Control the water pump start and stop according to the level in the basin.
- Stop the vacuum pump if the moisture trap is triggered.
- Prevent frost and ice plugs by opening and closing the drainage valve according to the outdoor temperature and/or based on the pressure inside the discharge tube.
- Avoid damaging the vacuum pump or filling a vacuum pipe outside the pumping station by closing the vacuum modulation valve if the extractor overflows.

NEW

- Optimize drainage and reduce the volume of water returning to the station by opening the compressed air valve to drain a discharge pipe after each water pump shutdown.
- Empty the pumping station tank at the end of the day by starting the water pump according to the temperature.





The table displays data for the ÉRABLIÈRE station. The columns are: Station de Pompage, ID, Transmetteur, Composants, Vacuum, Temp °C, and Temps.

Station de Pompage	ID	Transmetteur	Composants	Vacuum	Temp °C	Temps
Referential	STATION POMPAGE ÉRABLIÈRE	ÉRABLIÈRE Relais D-E-F-G-H	VACCUM Cabane 15.73	-25.7	7.0	0

LIGNES	TRANSMETTEUR	VACUUM	DIFF	TEMP °C	TEMPS
EH9	T22-EH8-EH6-EH9	-26.4	-0.7	3.6	0
EH8	T22-EH8-EH6-EH9	-24.0	1.7	3.6	0
EH7	T21-EH4-EH5-EH7	-24.0	1.7	6.1	0
EH6	T22-EH8-EH6-EH9	-26.5	-0.8	3.6	0



WHY CHOOSE DATACER?

- Power of the radios, allowing the transmitters to communicate with each other over longer distances without necessarily requiring repeaters.
- Very fast data refresh frequency on the interface.
- Pumping station equipment automation independent of the radio or local network thanks to the DATACER station.
- Quality of the components. Our vacuum sensors have been chosen for their accuracy.
- Superior warranty: 2-year parts and workshop labour.
- Attentive training, support, and customer service.
- Easy to use.
- Overview on a single page.



FAST AND EFFECTIVE OVER LONG DISTANCES

MORE THAN 5 KM WITHOUT A SIGNAL REPEATER*

DATACER is a flight gliding several kilometres above your collection network to provide you with accurate data, all to optimize the airtightness of the maple sap collection network.

TRUSTWORTHY POWER



DATACER is undoubtedly the most effective wireless monitoring and control system for maple syrup production. Its radio system certified by Industry Canada and the Federal Communications Commission (FCC) ensures safe and legal use across Canada and the United States.



YOUR SUGAR BUSH ACCESSIBLE WHEREVER YOU ARE

ACCESS TO THE DATACER SYSTEM:

- From the shack without any internet connection.
- Remotely with an internet connection, from a computer, tablet, or phone.



NEW

In the forest via the DATACER mobile device if you are within range of one of the network's radio transmitters. A useful solution for accessing your data in the forest if there is no cellular network or internet at the base.



NEW

Possibility to manage one or more remote sites on the same interface thanks to one or more DATACER gateways connected to the internet or connected to a local network (fibre optic).

* Under ideal terrain conditions. Communication is influenced by the topography of the terrain, vegetation density, the height of the transmitters, and other parameters. Your Lapierre advisor will be able to find the solution for your sugar bush.



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