

Now available
in Canada!




Vacuum Pump Remote Monitoring & Control System

- ◆ Easy to use— send/receive text messages from your cell phone
- ◆ Designed for the smaller sugarbush
- ◆ Complete system—includes controller and all sensors
- ◆ Easy to install
- ◆ **Supports communications from multiple users**

New for
2020!

REMOTE MONITORING

Receive status messages on your cell phone with ...

- Current vacuum
- Current temperature
- Pump status (on / off)

REMOTE CONTROL

Send easy-to-use text commands to ...

- Start pump
- Stop pump
- Auto start/stop pump

- ◇ Automatically start/stop pump based on temperature thresholds you set

REAL-TIME ALERTS

Receive text messages alerting you to ...

- Loss of vacuum
- Sap collection tank full

EQUIPMENT

- ◆ SapCheck Controller (A)
- ◆ Tank float switch (B)
- ◆ 12' insulated float switch cable (C)
- ◆ Wire assembly consisting of Male Sensor Connector Plug (D) with temperature sensor (E) and male vacuum sensor connector (F) and 2 terminated Float Switch wires (G)
- ◆ Vacuum Sensor transducer with female connector (H)
- ◆ Controller Power Cord (J)
- ◆ "Power In" Receptacle on Controller (L)
- ◆ "Power Out" Receptacle on Controller (M)
- ◆ Multi-sensor connector (N)
- ◆ Float Switch By-pass wire (P)
- ◆ Antenna (Q)

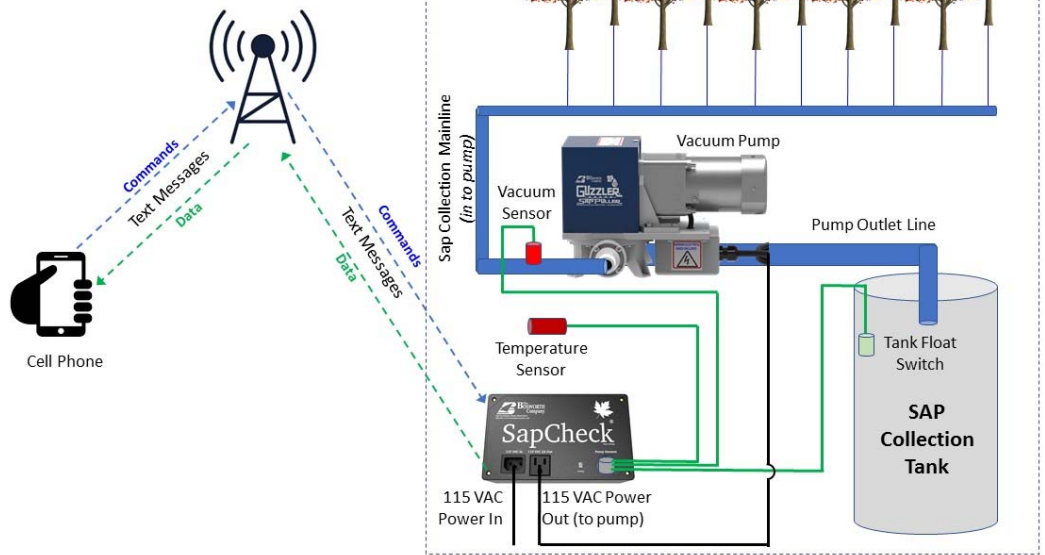


Specifications

Input Voltage	115 VAC
Maximum Load	9.8 Amps (1/2 Hp pumps)
Power Consumption	<8 watts (monitoring only)
Vacuum Sensor	Tap Hole Size: 1/8 in NPT Wire length: 18 in
Temperature Sensor	Probe Diameter: 1/4 in Wire Diameter: 1/8 in Wire Length: 3 ft
Tank Float Switch	Float switch thru-hole diameter: 7/16 in Maximum tank wall thickness: 3/8 in Connecting wire length: 12 ft Connection wire diameter: 3/8 in
Controller Box	Dimensions: 7-13/16 in x 4-11/16 in x 3 in Weight: 1.5 lb
	Environmental: Not water resistant; not ventilated; must be located in a dry, ventilated enclosure. Operating temp range: 20°F—100°F.



Application Schematic



Product Nomenclature Guide

Bosworth Product Type	
Option	Code
Monitoring System	MS

Style (Family)	
Option	Code
SapCheck	SCK

Voltage	
Option	Code
115 VAC	01

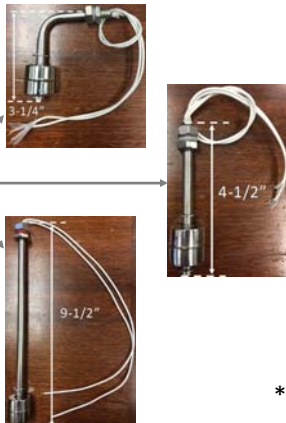
MS - SCK 01 - 1 4 5 - 1 - U 2

Sensors			
Option	Code		
	Sensor 1	Sensor 2	Sensor 3
None			
Vacuum & Pressure (-14.5—30 psi)	1		
Vacuum only			
Pressure only			
Temperature		4	
Float Switch—Right Angle			5
Float Switch—Straight/Short			6
Float Switch—Straight/Long			7

Antenna	
Option	Code
Dipole Swivel	1

Country (for wireless)	
Option	Code
USA	U
CANADA	C

Support Plan* (for communications)	
Option	Code
No Support Plan (Dealer sale only)	0
1 month activation; 1,500 msgs/mth	1
2 months activation; 1,500 msgs/mth	2
3 months activation; 1,500 msgs/mth	3
4 months activation; 1,500 msgs/mth	4
5 months activation; 1,500 msgs/mth	5
6 months activation; 1,500 msgs/mth	6



*Additional support plan terms available on request

**Now available
in Canada !**



Remote Monitoring & Control System for the Small Sugarbush

**Available with monthly texting plans!
Buy only what you need!**

SapCheck FAQ's

What is SapCheck?

SapCheck® is an innovative remote monitoring system for maple sap collection in maple sugarbushes. SapCheck consists of a controller unit together with three (3) sensors— a vacuum sensor, a temperature sensor, and a tank float switch to detect when sap has reached a target level in the collection tank.

SapCheck requires the ability to send and receive text messages at the sugarbush. No internet or data service is needed. Using simple text-based messaging, users can monitor vacuum and temperature conditions at the sugarbush, receive low-vacuum alerts as well as “tank-full” alerts on their cell phones, remotely start and stop their vacuum pump, and automatically start and stop their pump based on temperature values they specify.

SapCheck is intended for use at smaller sugarbushes where more expensive internet-based monitoring systems may not be cost-justified.

What information will SapCheck send you?

SapCheck will text you "Status" information from your sugarbush: the current **temperature** at the sugarbush; current **vacuum** at the pump; whether the **pump is on or off**; and whether sap has reached the “**Sap Alert Level**” in your collection tank. You can ask status information from SapCheck at any time, or text SapCheck to automatically send you status reports on a regular basis.

What alerts does SapCheck send you?

SapCheck provides two alerts: a "**Loss of Vacuum**" alert and a "**Sap at Tank Alert Level**" notification. You text SapCheck the low-vacuum value at which you want to receive a text alert. Where you install the Tank Float Switch will determine the sap level at which you will receive the "Tank Alert Level" notice.

Can you control your pump with SapCheck?

Yes, you can turn your pump on/off remotely via text messages. You can also set a temperature at which SapCheck will automatically turn your pump on, and another at which it will automatically turn your pump off. You will receive text notices when this happens.

Does SapCheck work with all Guzzler pumps?

SapCheck works with all 120VAC Guzzler pumps.

Can SapCheck work with other pumps?

SapCheck works with any 120VAC pump using up to 1/2 Hp motors. In fact, SapCheck can work with any 120VAC device, as long as it does not draw more than 370 watts of power. Use SapCheck with a 120VAC electrical relay to control larger pumps.



SapCheck FAQ's

How does SapCheck communicate?

SapCheck communicates by sending and receiving cell phone text messages.

Does SapCheck need to have Internet service at your sugarbush?

No, SapCheck does not need Internet access to operate, just the ability to send/receive text messages via cell phone service.

Can more than one cell phone talk to SapCheck?

Yes, the latest SapCheck software release supports multiple SapCheck users. Text commands allow a new cell phone number to be added or deleted from SapCheck's list of authorized users. An authorized user can text SapCheck to specify his status as Active or Inactive. Active users can text SapCheck commands and receive alerts. Inactive users can neither receive status information nor alerts, but can change their status back to Active by texting a simple command. With its multi-user feature, SapCheck can be used by a team of people managing a sugarbush.

Are SapCheck communications secure?

SapCheck will accept text commands only from cell phone numbers on its list of authorized users. SapCheck ignores text messages received from other phone numbers.

Is there a communications charge for using SapCheck?

You purchase an annual SapCheck Support Plan from The Bosworth Company that includes text-based communication over a cellular network as well as software updates. Support Plans can be purchased that provide from 1 - 6 months of communications, with a limit of up to 1,500 text messages per month. (Messages that SapCheck sends or receives are counted as messages.) Plans can be renewed as needed.

What do you need to make SapCheck work?

You need the ability to send and receive text messages at your sugarbush. You do not need the ability to connect to the Internet.

You also need 120 VAC power either from mains, a generator or a pure sine wave inverter on a battery. The SapCheck Controller generally draws less than 8 watts when operating.

What comes with SapCheck?

SapCheck comes with the Controller unit and power cord, plus one each of 3 sensors: vacuum sensor, temperature sensor, and tank float switch. All wiring that connects the sensors to the SapCheck box is also included.

Is SapCheck easy to install and set up?

Yes! SapCheck can be installed in as little as 30 minutes. To install SapCheck, you need to install the vacuum sensor in your mainline near the pump and install the float switch in your collection tank. Plug your pump into the SapCheck Controller, plug the Controller into 120VAC power and you're ready to go. When SapCheck powers up, it sends a message to your cell phone confirming that it is on.

How far away can my collection tank be from SapCheck?

SapCheck comes with 12 feet of cord connecting the float switch to the Controller unit. Additional wiring can be spliced onto this cord for collection tanks at a greater distance from the Controller.