

SWAT BOX

Pricing and Specifications for Service Providers

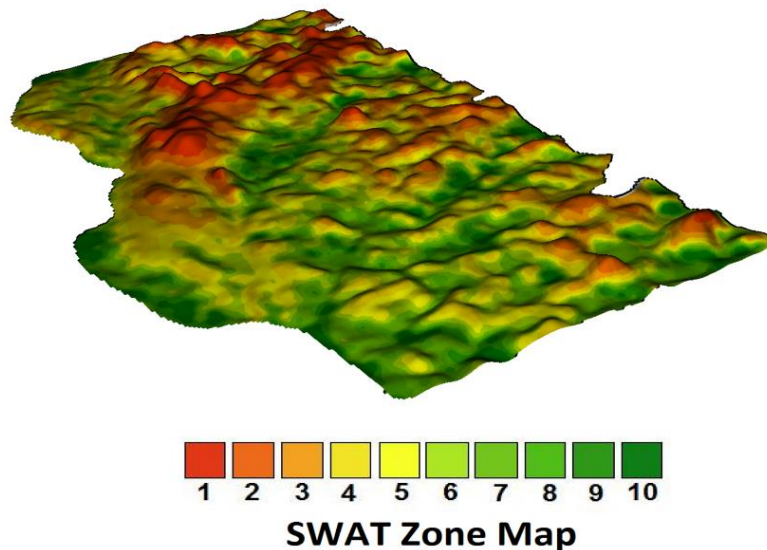
Patent Pending



Effective Jan 21, 2019. Prices subject to change.

Overview

SWAT BOX is an automated electrical conductivity (EC) and elevation mapping system developed by CropPro Consulting. Up until this point, to enter the variable rate mapping market required upfront research and integration time spent piecing together a mapping system. As well, to properly process and interpret EC data requires significant knowledge and experience. CropPro has accumulated over ten years of mapping experience and has been through the mapping system and process development pains. SWAT BOX is a ready out of the box mapping solution where after approximately 1 hour of installation time you can be mapping and live streaming EC and elevation data to CropPro's map development experts. This system enables any agronomist, or service provider the ability to offer the patented SWAT MAPS variable rate mapping service to their customers.



SWAT BOX has been designed to be adaptable to a wide variety of mapping vehicles including trucks, ATVs, and agricultural equipment. The system is suspended above the soil which results in considerably less maintenance than traditional EC sled systems. No additional computer or software is required to operate the system. To view the live EC and elevation coverage map, the mapper can simply monitor the live data with their cellular phone or tablet. Also, CropPro map developers can log in remotely to troubleshoot and to ensure data being collected is of good quality. Simply mount SWAT BOX to the mapping vehicle, supply the system with 12 Volts, and drive the fields.

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SWAT BOX Components and Pricing:

1. **Sensor Enclosure, Mounting Equipment, Data Logger, and Cables:** \$15,300 CDN

2. **EM38 Sensor:** \$19,600 CDN

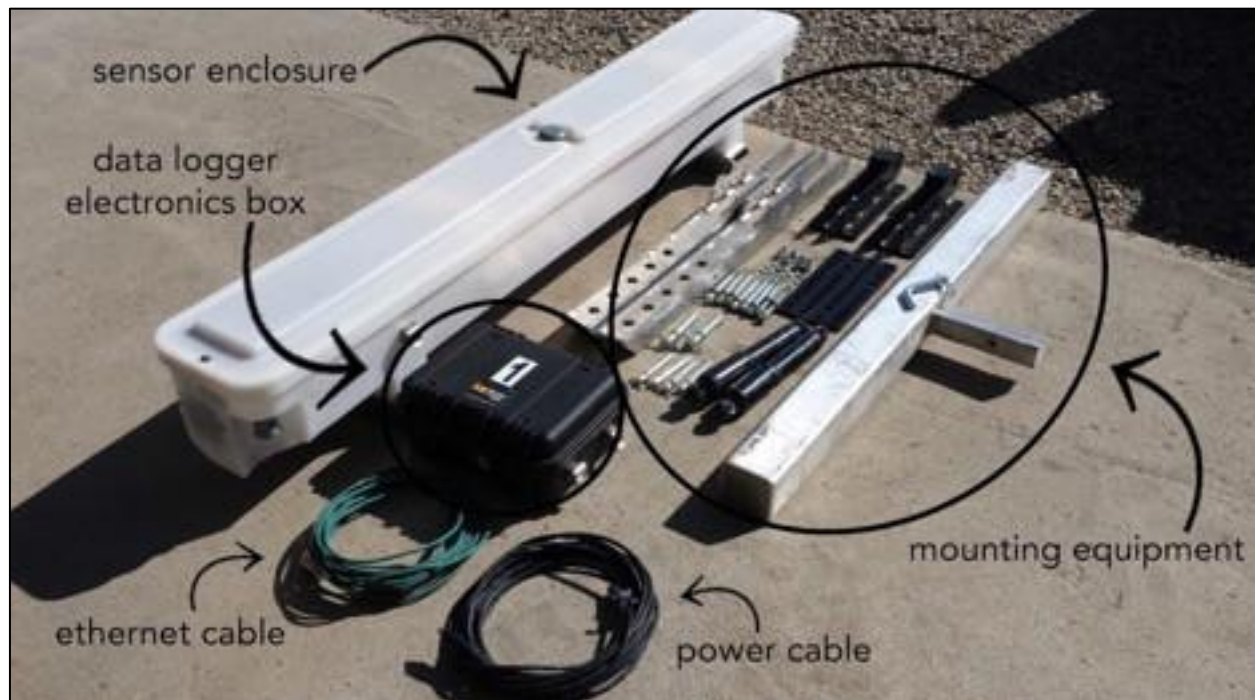
If an EM38 is already owned, then this cost does not apply

3. **Annual Data Management and Software Fee:** \$2,000 / year CDN

Includes cellular data plan, Automatic data upload to CropRecords database, Remote service access, and basic GK Technology ADMS GIS Software package

Total Purchase Price with EM38 Sensor: \$34,900 CDN

Plus shipping at actual cost and any applicable sales tax.



SWAT BOX Component Specifications

1. Mounting Equipment, Sensor enclosure, Data Logger, and Cables:

- Inserts into any class IV or V hitch receiver (2" square internal hitch receiver tube) for quick installation and removal.
- Mounting system is adjustable to achieve a target sensor height of 12" above the soil with various mapping vehicles.
- Enclosure support arms can pivot upwards in case of contact with the ground and shock absorbers dampen vibrations in rough terrain.
- For long distance travel the enclosure and support arms can be easily removed.
- SWAT BOX can be mounted to trucks or ATVs (see below)



- The enclosure arms can be pinned up into transport position for safe transport between fields. (see right)



- SWAT BOX is also available in a traditional towed sled (see right). This can be used on trucks or smaller ATVs with light hitch receivers.

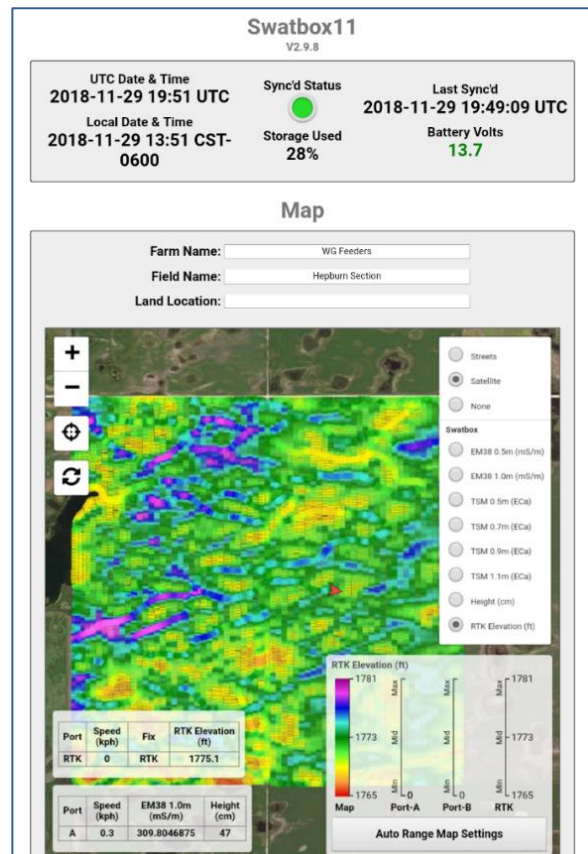


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- SWAT BOX can be mounted to agricultural implements for data collection while farms are performing regular operations such as seeding or tillage on the farm (see below)



- For mounting to equipment without a standard hitch receiver please contact us for pricing on custom mounts
- Data from two EC sensors can be logged simultaneously if two sensor enclosures are mounted to wide agricultural equipment for high resolution mapping.
- Enclosure weight with EM38 is 75 lb.
- A GPS sensor is integrated into the enclosure.
- A height sensor is integrated into the enclosure to ensure EC sensor height is within an acceptable range.
- Power Required: 12 Volts, 2 Amp
- Data stored locally on an SD card as well as a cellular data modem transfers data automatically to the CropRecords server where SWAT MAPS developers can access the data immediately after a field is mapped.
- A local Wi-Fi network facilitates monitoring data on a phone or tablet via a live, color coverage map for data quality checks (see right).



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- Data points are logged at 5Hz and logging is triggered over 0.6 km/h.
- External LED indicator lights show the operating status.
- Datalogger can also log elevation data and display the live elevation map if mapping vehicle is equipped with an RTK GPS system.
- Expansion flexibility is built into the system in order to log data from other sensors in the future.
- One 30 ft power cable is included and plugs into a standard cigarette lighter plug of vehicle.
- One 30 ft data cable is included.

2. EM38 Sensor:

- The sensor enclosure accepts the Geonics EM38 MK-2 electrical conductivity sensor.
- Contact us for integration of other sensors



3. Annual Data Management and Software Fee

- Includes SIM card, data plan, and automatic data upload to the CropRecords server where SWAT MAPS developers can download the data immediately after a field is mapped for quick turnaround of maps.
- Includes remote service access so SWAT MAPS experts can log in to update SWAT BOX software or provide troubleshooting assistance.
- Includes [CropRecords](http://www.CropRecords.com) software where all field data and maps are stored. CropRecords can also be used for farm management, logistics, and record keeping (www.CropRecords.com).
- Includes GK ADMS Software, which produces the best maps in the GIS market.

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Other Notes:

Training and Setup

- 1 hour of operator training included via internet for customers outside of a 300 km radius of Naicam, SK. Training on site and delivery to customer location included for customers within this 300 km radius.

- If delivery and set-up beyond the 300 km radius are requested, there will be an additional \$100 / hr fee for travel and setup time.

Warranty

- Warranty for up to 1 year from date of shipment from CropPro includes:
 - Support over the phone and remote system login for troubleshooting.
 - Replacement parts shipped out to customer's location and customer conducts parts replacement as necessary.
- After warranty expires a tech support fee of \$100 / hr plus travel costs will apply if customer requests service.
- After warranty expires replacement parts will be at customer's expense.
- CropPro has the right to refuse warranty if failure was caused by misuse of SWATBOX system and or operator manual was not adhered to.
- Warranty does not apply to damage caused by contact with hazards such as the ground, rocks, or manmade obstacles.

Purchasing

- Purchase option only available to service providers using SWAT MAPS process (See www.swatmaps.com for additional fees for SWAT MAPS)
- requires signed purchase order and payment in full prior to SWAT BOX build
- Delivery time of 2 to 12 weeks depending on current inventory

For more information contact:

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