



Product Bulletin

# 2000 XA SOIL EC MAPPING SYSTEM



The Veris 2000 XA is a complete soil mapping system that acquires continuously-sensed soil electrical conductivity (EC) data. It utilizes a single, extendable array to provide EC information at multiple depths.

## ROBUST, FLEXIBLE AND NIMBLE

The implement wheel base is designed to fit behind most 4 wheel ATV's, and the coulter-electrode spacing is adjustable to be able to map in growing row crops. This extends the EC mapping season



into the late spring—important for those areas with limited mapping windows.

Like its bigger brother the 3100, the Veris 2000 XA features a welded tubular steel framework and electrical arrays that are free from metal interference, along with data acquisition and processing that produces the most accurate soil EC information.

## SIMPLICITY

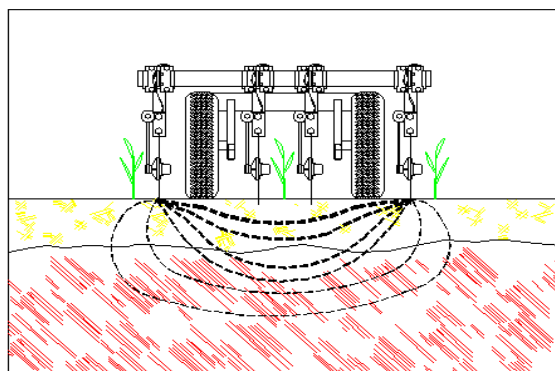
Because the positions of the electrodes and the voltages are pre-programmed, there is no need to calibrate or null any of the settings. Just select the array depth and start mapping. The instrument/data logger uses easy-to-understand prompts, enabling non-



computer personnel to collect EC data effectively. Veris uses industry standards, such as ASCII file formats and NMEA GPS protocols for easy connectivity.

## EXTENDABLE DEPTH ARRAY

Unique to the Veris 2000 XA model is the ability to adjust the coulter-electrode spacing in order to acquire soil EC data from multiple depths. This feature provides the user with information about the top 0-2' (0-61 cm) as well as the 0-3' (0-91 cm). The top layer typically shows effects of management induced



variability—such as tillage, and soil redistribution, while the deeper array more closely identifies the natural patterns of

soil variability. Together, the two data sets provide insights into the depths and properties of the different soil horizons.

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## A COMPLETE PACKAGE

When you buy a Veris 2000 XA, you get a system—from generating the electrical signal, measuring the voltage of that signal as it moves through the soil, converting the analog response to digital, to logging the geo-referenced results-- it's one system from one supplier. And it's designed expressly for continuously-sensed field mapping. Veris Technologies understands agriculture and is leading the way to a better understanding of precision agriculture with new tools and processes.

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### SPECIFICATIONS AND STANDARD FEATURES

#### 2000 XA IMPLEMENT ORDER # VS2000XA

Overall Dimensions--implement: width: 58" (1.47m);  
length: 88" (2.23m); height: 35" (89cm)

Shipping dimensions--implement: width: 60" (1.52m);  
length: 93" (2.36m); height: 41" (1.04m)

Shipping Weight--implement: 850 lbs. (377kg)

Minimum horsepower requirement: 12 to 20 hp (note: requirements will vary based on speed, terrain and soil conditions)

Tire Size: ST175/80R13

Maximum field speed: 15 mph (25 km)

Coulter electrodes: disk diameter: 17" (43 cm) disk thickness: 4mm; with tapered roller bearings and ductile cast hubs

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#### EC INSTRUMENT PACKAGE

ORDER # 15161

Dimensions—instrument: width 8" (cm); length:  
10" (25.4cm); height: 4" (10.16cm)

Shipping Weight--instrument: 10lbs. (3.97kg)

Hard shell case

Instrument mount

Diagnostic instruments

Instrument microprocessor: 386 SX



## 2000 XA SOIL EC MAPPING SYSTEM

Instrument flash memory capacity: 26 hours of EC data

Data logging interval: once per second

GPS compatibility: RS 232 port for input from GPS with NMEA-0183 protocol; input from GGA and VTG or RMC strings required

Back-lit transfective display –sunlight readable

Disk Drive: 3 1/2" floppy --DOS format

Other data-logging options: data may be output to logging PC via RS 232 port

File Format: ASCII tab delimited

Instrument Operating Temperature: 20 to 122°F (-4 to 50°C)

Electrical power required: 10 to 15 volts DC; cigarette lighter power cord included

Cabling: 1- power cable to instrument (quick connection)  
signal cable to implement (quick connection)

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### OPTIONAL EQUIPMENT

Weight Package (4 tractor suitcase weights & mounting hardware) Part Number 14479

Coulter Height Adjustment Kit (provides convenient coulter adjustment in ridged or furrowed fields – one per row) Part Number 12670

Coulter Rock Guard Kit (protects hub and commutator in rocky field conditions; set of four) Part Number 15170

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### WARRANTY

*Veris Technologies warrants this product to be free of defects in materials and workmanship for a period of one (1) year from the date of delivery.*



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