



Product Bulletin

3100 SOIL EC MAPPING SYSTEM

The Veris 3100 is a complete soil mapping system that acquires continuously-sensed soil electrical conductivity (EC) data from two soil depths. The complete system includes an implement with six coulter-electrodes and an instrument that creates and processes the signal, as well as logs and downloads the EC data.

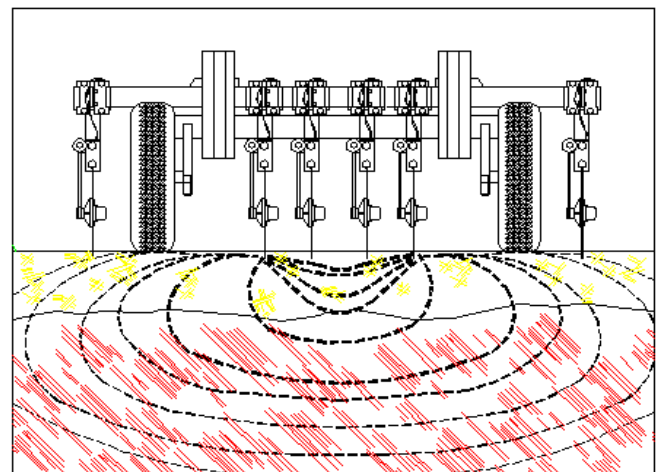


Veris uses industry standards, such as ASCII file formats and NMEA GPS protocols for easy connectivity.

The implement uses flat disk blades on its coulter-electrodes to keep soil disturbance and horsepower requirements at a minimum. The optional road kit makes transporting from field to field quick and easy.

DUAL DEPTH ARRAYS

Unique to the Veris 3100 model is the ability to acquire soil EC data from two depths simultaneously. This feature provides the user with information about the top 0-1' (0-30 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.



ROBUST DESIGN

From the welded tubular steel framework of the Veris 3100 implement to the rugged construction of the coulter-electrodes, it's readily apparent that this machine is built for hard-nosed fieldwork. And what isn't visible is even more impressive—proven 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 position of the electrodes and the voltages are pre-programmed, there is no need to calibrate or null any of the settings. Just press the button and start mapping. The instrument/data logger uses easy-to-understand prompts, enabling non-computer personnel to collect EC data effectively.

A COMPLETE PACKAGE

When you buy a Veris 3100, 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.

SPECIFICATIONS AND STANDARD FEATURES

3100 IMPLEMENT ORDER #V S3100

Overall Dimensions--implement: width: 92.5" (2.35m); length: 96" (2.44m); height: 35" (89cm)

Shipping dimensions--length: 88" (2.24m); width: 96" (2.44m); height: 46" (1.17m)

Shipping Weight--basic implement without weights: 1200 lbs (544kg) export crated: 1400 lbs (635 kg)

Minimum horsepower requirement: 20 to 30 hp (note: requirements will vary based on speed, terrain and soil conditions)

Tire Size: P205 R75 highway tires

2" Ball coupler and safety chain -- maximum road speed: 55 mph (93 km)

Maximum field speed: 15 mph (25 km)

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

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



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Instrument microprocessor: 386 SX

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)

OPTIONAL EQUIPMENT

Road Kit: (includes lights and harness for highway transport)
Part Number 8303

Adapter 6-pin round (converts flat-four connector to 6-pin)
Part Number 15194

Adapter 7-pin round (converts flat-four connector to 7-pin)
Part Number 15195

Weight Package: 6 tractor suitcase weights
Part Number 8304

Electro-hydraulic lift kit: remote 12 volt power unit, 3"x8" (76mm x 203 mm) cylinder, cables and controls
Part Number 8305

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 conditions Set of six)
Part Number 15169

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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