



# 930i Ground Integrity Analyzer



## The Ultimate in Ground Bond Analyzer Performance

### Speed, Flexibility & Value

At Vitrek, we believe that your investment in safety compliance equipment is an important one. The 930i Ground Integrity Analyzer is a case in point. The output current is fully user selectable from 3 to 30 amperes. So whether you're testing to a UL spec at 25 amps today or an IEC spec at 30 amps tomorrow, you can be sure that your Vitrek will stand up to the test for years to come.

In fact, all test parameters of the 930i are fully programmable-output current, frequency, resistance limits and test duration. And whether you're running the 930i from its password protected test database or via computer control, ground bond testing has never been simpler or faster.

### Measurement Confidence That is Second to None

To provide unparalleled accuracy, the Vitrek 930i employs a state of the art high speed, 4-channel, 16 bit analog to digital

converter. The 930i simultaneously tracks and controls the output current, while measuring voltage drop across the load, and monitoring the status of both power supply and output amplifier.

The four-wire Kelvin configuration eliminates lead resistance errors to provide measurement repeatability down to  $10\mu\Omega$ . Performance that the other units cannot begin to match.

### Seamless Test Integration

The 930i works hand-in-hand with Vitrek hipot testers so that dielectric testing and ground bond testing can be accomplished from a single set up. The results are automatically integrated into a unified test report with overall pass/fail status as well as step-by-step results with final values.

Providing confidence in every test you make is our job. Isn't it time to put the unrivaled performance of the 930i to work for your team?

- 3 to 30 amp test current - meets a wide variety of regulatory test specifications
- Password protected test routine storage
- Frequency synthesis 50-400Hz
- $10\mu\Omega$  resolution - more measurement confidence and repeatability
- 4-wire Kelvin sensing - eliminates lead resistance errors
- Fully programmable via front panel, hipot or computer control
- Hipot and ground test from one set-up
- High speed test throughout with actual measurement values
- Display prompted setup - easy to use, fully adjustable
- CE mark certified to EN 61010
- Made in the U.S.A.
- 5 Year extended warranty



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## Alternating Current Output

**Range:** 3 to 30 amperes RMS, programmable

**Resolution:** 1 amp

**Output Frequency:** Sinewave synthesis, 50Hz to 400Hz

**Compliance Voltage:** 3 volts RMS

**Regulation:**  $\pm 0.25\%$  no load to full load

## Resistance Measurement

**Resistance Limit:** User programmable max. and min. Test is automatically aborted when limit is exceeded

**Resistance Range:** 1 $\Omega$  at 3 amps linearly decreasing to 100 m $\Omega$  at 30A

**Resistance Resolution:** 10 $\mu\Omega$

**Measurement Accuracy:**  $\pm 1.0\%$  of reading;  $\pm 0.5\%$  of range

**Accuracy:** Specifications apply for 1 year,  $\pm 5^\circ\text{C}$  from the cal temp within 20 $^\circ\text{C}$  to 30 $^\circ\text{C}$

**Calibration:** Certificate of calibration traceable to the National Institute of Standards and Technology (NIST) provided

**Test Time:** Digital count down timer, programmable 1 to 9999 seconds

**Terminal Configuration:** True four-wire kelvin

## General Specifications

**Remote Interface:** VICL and serial com standard. PLC optional

**Display:** 40 character dot matrix illuminated liquid crystal display

**Indicators:** L.E.D. status indicators

**Alarm:** Audible and visual alarms provide pass/fail indication

**Diagnostics:** Built-in self diagnostics test ROM, RAM and output system

**Safety:** CE mark certified to EN61010

**Accessories:** K-2, VIC-3, BBL-2 and operators manual supplied with unit

**Warranty:** Extended 5 year parts and labor with annual factory calibration and maintenance. Standard warranty one year

**Operating Temperature:** 0 $^\circ\text{C}$  to 50 $^\circ\text{C}$

**Humidity:** 90% RH 0 $^\circ\text{C}$  to 40 $^\circ\text{C}$

**Power:** 115/230 VAC  $\pm 10\%$  250 VA max

**Dimensions:** 89mmH x 432mmW x 457mmD (3.5"H x 17"H x 18"D)

**Weight:** 11Kg (24 lb.) Net/15Kg (34 lb.) shipping

## Ordering Information

**Vitretek 930i** Automatic Ground Integrity Analyzer . . . . .

**TL115HC** Outlet Test Adapter . . . . .

**K-4** 4-wire 4-clip 30A lead set. . . . .

**K-2** 4-wire 2-clip 30A lead set. . . . .

**RM-1** Rack Mount Adapter Kit . . . . .

**PLC-3** Logic Level Interface . . . . .

**RS-1** RS232 Cable 6 ft. . . . .

**VIC-3** 930i to 944i 2 Meter Communication Cable. . . . .

**OM-930** Extra Operators Manual. . . . .

### Represented by:



The 930i shown here with the Vitrek 944i Dielectric Analyzer and TL-115HC Test Adapter. These two units in tandem provide hipot and ground bond test capability from the touch of a single button.

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