

Intermittent Fault Detection & Integrity Testing

The Ncompass-Voyager™: the powerful, flexible and effective Intermittent Fault Detection (IFD) and Integrity test solution that will test anything from wiring to relays, circuit breakers, connectors, ribbon-cables and more.

Detects permanent and intermittent shorts, opens, instability and EMI events

Rapid set-up with powerful test software

Quick testing: results displayed real-time

Available with 128, 256 or 512 test points

Distance-to-fault detection with Spread-Spectrum TDR (option)



The Ncompass™ range of IFD equipment is the global leader in IFD and integrity testing solutions. It has already saved one US client over \$50M, and in Europe it has enjoyed a wide range of successes in testing components and EWIS (Electrical Wiring and Interconnection System) on commercial and military aircraft and helicopters, and in rail systems maintenance.

Ncompass-Voyager™ Test Features

- **Intermittency** – detected to less than 50 ns on every test point, simultaneously and continuously
- **Continuity** – programmable continuity checks against referenced values
- **Log Scope** – instant display of a circuit's or component's stability
- **Shorts** – two modes providing shorts indication and shorts tracing capability
- **Analyze** – provides an impedance signature for the Unit Under Test
- **AutoMap™** – rapid mapping of circuits for complex and/or ad hoc testing
- **Distance-to-Fault** (*option*) – integrated Spread-Spectrum TDR locates distance-to-fault to within 1% up to 3650m (approx 12000 ft)
- **Circuit Analyser** (*option*) – integrated Huntron 30 technology provides Signature Analysis capabilities

Wiring and interconnection testing that leads the field

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Ncompass-Voyager™ Specification

Integral Computer	<ul style="list-style-type: none">• ITX Socket 1155 motherboard with PCIe, USB2.0, USB3.0• 3rd generation Intel i5, 4Gb RAM (min)• High reliability SSD 60Gb• Windows XP (Service Pack 3)
Test Software	<ul style="list-style-type: none">• Testing software includes Intermittency, Analyze, Continuity, Shorts, Trace and Log Scope.• GUI interface software providing the management of UUT, Test Point data and graphics. Quick access to testing and Test Results Management, with predefined report outputs and the ability to export results data in Excel• Updates included, downloadable from CTL website
Integral Screen	<ul style="list-style-type: none">• 17" Widescreen Panel Monitor – WXGA 1280 x 1024 with resistive touch screen
External Connections (IP55)	<ul style="list-style-type: none">• 128 or 256 x Test Point connections via a 50-Pin D-Sub connector• 1 x IEC connector (if mains option)• 1 x USB 3.0• 1 x RG45 Gigabit LAN• 1 x Instrument Connection• 1 x External monitor DVI connector
VAC Auto Switching Mains power supply	<ul style="list-style-type: none">• AC Input Voltage - 90/132 or 175/264 @ 47–63 Hz• DC Input Voltage - 12 – 28volts
Enclosure	<ul style="list-style-type: none">• Lightweight Strong HPX® Resin• Four Press & Pull Latches• Double-layered, Soft-grip Handle• Two Padlock-able Hasps• Vortex® Valve• Flush Powerful Hinges
Size and Weight	<ul style="list-style-type: none">• 55.9 x 43.2 x 20.3cm (22.00" x 17.00" x 8.00")• < 18Kg
Altitude	<ul style="list-style-type: none">• 3,050 meters (10,000 feet)
Temperature	<ul style="list-style-type: none">• Operating: 0 to 45°C• Storage: -20 to 70°C
Humidity	<ul style="list-style-type: none">• 10 → 90% non-condensing
One-year CTL Warranty	<ul style="list-style-type: none">• Excludes misuse, mishandling and operation outside the parameters specified in the User Manual

All models are supplied CE-marked and FCC-compliant

Please note that all specifications are correct at the time of publication (Dec 2013) and they are subject change without notice

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