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Vantage Eddy Current Flaw Detector

The Vantage is ETHER NDE's first hand-held and fully featured eddy current flaw detector, which allows true single hand operation, leaving the operator free to use their other hand to scan with a probe. The VANTAGE specification and features are comprehensive and will appeal to users in Aerospace, Offshore oil, Petrochemicals, Power Generation and Rail/Axle Inspection industries. With a full colour display and a compact and robust enclosure, the VANTAGE is ideal for use in all on-site and factory environments.

At just 0.8kg, the VANTAGE has earned its place as one of the lightest Eddy Current Flaw Detectors available. Compact and available with a specially sculpted, lightweight protective leather sleeve, the VANTAGE will comfortably fit in most tool boxes.

The VANTAGE screen is clear and crisp and easily viewable in daylight. The bright colour display screen is 320 x 240 pixels providing excellent resolution aiding accurate and rapid defect interpretation.

The user interface incorporates a simple side-bar menu allowing direct access to key instrument parameters and yet can be instantly switched to full-screen mode. The menu system is intuitive and any experienced Eddy Current Operator will quickly be comfortable using the instrument. A time based strip chart is available to assist with faster and more reliable defect detection.

A USB cable and reporting software are included free of charge for documentation of results on laptops or desktop PC's. The USB connector allows trouble free data transfer and software upgrades. Maximum data processing rate is up to 8 kHz. VANTAGE can store 200+ recording at a 1 kHz data processing rate of up to 240 seconds each.

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Technical Specifications

Modes	Single Lemo 00 for absolute probes and 14 way	Туре
	Lemo for Reflection, Bridge and Rotary	Number
Test	Single & Dual Frequency (F1 and F2) and Mix	
Frequency	50Hz - 12MHz	Output
Drive	0.5, 1, 2, 4, 6 v pk-pk	<u>Storage</u>
<u>Signal</u>		Settings
Phase	0 - 359.9° in 0.1° increments	Recording
Pre-Gain	-6.0 to 40.0 dB in 0.1, 1, 6, 10 dB steps	
Main-Gain	0 - 30 dB in 0.1, 1, 6, 10 dB steps	
Processing Rate	1 to 8kHz or 1/4 min Test Frequency	Computer
Filter	5 types of filter: High, Low, Band Pass,	Туре
	Differential, Average, 0 - 4000Hz range 1Hz	<u>Interface</u>
	increments	Interface
Null	Separate balance and instataneous zero	Software
Load	Automatic load selection	Casing
<u>Display</u>		Dimensions
Screen	3.5", 320 by 240 pixels, 115 DPI / 0.22mm	Weight
	square pixel.	Environmenta
Mode	Impedance (phase) plane & display with strip	
	chart, optional full screen modes with & without	<u>Temperature</u>
	strip chart. Optional day and night modes.	Range
Channels	3 preset display pages F1, F2 and Mix (all)	Power
Mixing	5 different mix algorithms	Internal Batte
Grid	8 by 8	Charge Time
Spot Position	9 pre-set spot positions	External AC
Calibration	Multi point calibration (6 points) curve may be	
	set and then used to read out measured values	
	based on signal parameters	

Box, Sector, Circle, Level, Trapezoidal A different alarm may be set for each of the three channels (F1, F2 and Mix) Audio, visual and external

100 settings

Sample data may be saved to internal memory 200+ result files maximum at 1kHz processing rate = 4 minutes; at 8kHz = 30 seconds

Windows, XP, Vista and Windows 7

USB 2.0 Allows results files to be reviewed and analysed

L 20cm (7.9") x W 11cm (4.4") x H 9.5cm (3.8") 0.8kg (1.8 lbs) IP64 (Total Dust Ingress Protection; protection against water spray from any direction)

-20°C to 40°C

NiMH 5.5 hours maximum life 3 hours 100 - 240V ac 50 - 60 Hz 50 watts

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