Arya16
MultiChannel Ultrasonic Flaw Detector

★ 8/16 channels.
★ Separate 8/16 A-Scan traces with different colors.
★ Light Weight (2 Kgs.)
★ Built-In bi-directional length/position display of probe
★ 200 built-in memory locations to store A-Scan and set-ups.
★ Use of USB flash drive provides virtually unlimited storage.

Ideal for Semi/Full Automation Applications.

Enquiries solicited from UT Systems integrators
Brief Technical Specification of Arya16

Test Range: 10mm to 1000mm (@5920 M/sec Steel Velocity equivalent) continuously variable. It can be adjusted with hot key for coarse range step. Horizontal linearity ± 1%.

Velocity: 1000m/s to 9999m/s. continuous adjustment. It can be adjusted using hot key in 7 preset values.

Delay: 0-1000mm Continuous variable. It can be adjusted using hot key in coarse delay step.

Gain: 0-80 db with 0.1, 0.5, 1, 2, 6, 12 dB step selection. Vertical Linearity: ± 5%

Rejection: Linear type (0-99%) of full screen height, 1% step.

Rectification: Full wave rectified A-Scan.

Frequency: 0.2 to 20 MHz

No of channels: 16 channels with separate A-Scan traces, Any or all can be selected.

Test Modes: Pulse echo or transmit/receive.

Transmitter: Negative Square wave type.

Freeze/Peak Freeze: Current display Freeze and Peak freeze to create echo dynamic pattern.

Connector: BNC type connectors for all channels.

Monitor: Dual gate for each channel adjustable in 1% screen width with Positive/Negative logic, Gate Expand modes.

Gate Expand: Expands Range to width of the gate.

A-Scan memory (built-in): 200 Multicolored A-Scan with calibration parameters with measured value. Using external USB pen drive virtually unlimited A-scan and Calibration set-ups can be stored.

Calibration Set-up: 100 calibration parameters set-ups.

Software: Suitable PC software provided to review/ print report of the stored A-scan files.

Display: TFT Color with LED backlight 152mm x 91 mm Viewing area, 800 x 480 pixels. All channels have separate base line with color selectable by user.

A-Scan Display: Envelop or filled A-scan Pattern.

DAC: Separate Dynamic DAC curve for each channel with additional -6 and -14 dB. DAC curve can be set as flaw monitor gate. Using 2 to 10 points DAC curve can be plotted.

Measurement: Echo amplitude, Sound path, Echo to Echo distance. When angle probe is used then using trigonometric functions it calculates and displays Surface and Depth distance of defect.

Measuring Unit: Millimeters.

PRF: Maximum 8000 Hz which varies in step of 50 Hz as per parameter set value due to Auto limiting.

Update Rate: 50Hz.

Power Source: Operates on Built in Li-Ion rechargeable battery or on Mains using supplied charger. Operation time is 8 hours with fully charged battery.

Charger: Input Voltage 100 to 240 VAC. Charge status indicator is provided.

Battery charge status: Battery charge status by suitable LED indication on charger.

Battery Status: Battery status indicator with auto low battery shut down to protect battery.

Encoder: Positional encoder interface to indicate travel distance/position of probe.

Keyboard: User friendly with direct access to frequently used functions.

Operating Temperature: 0 to 55°C. (For operation)

Dimensions: 247mm x 151mm x 70mm

Weight: Approx 2 Kgs.

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Manufactured and Marketed by

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