

Product Catalogue: A-Scan ECHOMETER 1077

Product Overview

A-Scan ECHOMETER 1077 is a portable, high-precision ultrasonic device for wall thickness and sound velocity measurement. Engineered in Germany by Karl Deutsch, this device is tailored for industrial non-destructive testing (NDT), quality assurance, and maintenance operations.

Key Features

- **High-Resolution TFT Color Display:** 320 x 240 px with backlight, dimensions approx. 50 mm x 37 mm
- **Measurement Modes:** Wall thickness, sound velocity, and transit time
- **Selectable Resolution:**
 - Wall thickness: 0.1 mm, 0.01 mm, 0.001 mm, 0.0001 inch
 - Sound velocity: 1 m/s, 0.1 m/s, 1 inch/s
- **Measuring Range:** 0.25 mm to 450 mm (depending on probe & mode)
- **Data Storage:** Up to 999 readings in 5 or 25 files (with expansion module)
- **Measuring Rate:** 100 Hz for real-time performance
- **Battery-Powered:** 2x AA alkaline or lithium batteries (portable version)
- **Connectivity Options:** RS232C, USB (via adapter), TCP/IP (rack version)
- **Compact & Lightweight:** Approx. 237 g including batteries and holster
- **User Alerts:** Visual and audible battery alerts for undervoltage

Technical Specifications

Parameter	Details
Display	TFT color, 320×240 px, 50×37 mm

Parameter	Details
Measured Values	Wall thickness, sound velocity, transit time
Wall Thickness Accuracy	Up to 0.001 mm
Sound Velocity Accuracy	Up to 0.1 m/s
Measuring Range	0.25 mm – 450 mm
Measuring Rate	100 Hz
Storage	Up to 999 readings per file, 5 or 25 files
Power Supply (Portable)	2x AA alkaline/lithium batteries
Power Supply (Rack)	110–240 V, 50/60 Hz, < 0.5 A
Interface (Portable)	RS232C, USB (via adapter)
Interface (Rack)	USB (virtual COM), TCP/IP, RS232C
Dimensions	135 x 82 x 32 mm
Weight	237 g (with batteries)
Rack Version	3 RU, module width 12 HP, expandable to 6 channels

Industrial Applications

- **Non-Destructive Testing (NDT):** For internal flaw detection without damaging the object.
- **Production Quality Control:** Ensures uniform thickness and material integrity.
- **Preventive Maintenance:** Ideal for pipelines, tanks, and structural components.
- **Aerospace & Automotive:** Precision testing of composite and metallic structures.
- **Oil & Gas Industry:** Critical for corrosion monitoring and asset management.

Advantages

- Exceptional measurement accuracy

- Fast, real-time results with visual feedback
 - Multi-format connectivity for data export
 - Ergonomic and rugged design
 - Expandable system (rack version) for advanced industrial integration
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Ordering Information

- **Standard Portable Unit:** A-Scan ECHOMETER 1077 (incl. batteries, holster, probe optional)
 - **Rack-Mount Version:** 19" rack housing, 3 RU, module width 12 HP
 - **Optional Accessories:** Probes, matrix/B-scan module, PC software, cables, printer
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Contact & Support

For more information, detailed quotes, or technical support:

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