



Portable Ultrasonic Flow Detector MFD350B



Overview

MFD350B Portable Digital Ultrasonic Flow Detector is a economical and practical model improved on MFD500B. Except for the differences of its measuring range, working frequency and transmitted pulse parameter, the other performances are the same as MFD500B.

Based on ultrasonic pulse reflection testing principle, MFD350B controls all testing process by the mini-processor. And it has low power design and can do charge with two models such as online chargeing and offline charging. And it can work continuously about 8 hours. With large capacity, digital multi-color TFT LCD, original imported stable IC, small size, light weight, stable performance and favorable price, MFD350B is one of our company's high promoted super cost performance and economically ultrasonic flow detector.

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KEY FEATURES

- With chinese display, master-slave menu, shortcut key and digital swiftly knob, it's designed with leading technology and can be used very conveniently.
- With digital color TFT LCD display, it can choose the background colour and wave color according to the environment. And the LCD brightness also can be set freely by yourself.
- Designed with high performance security-guarantee battery module, it's easy for disassembly and assembly. And it can charge independent with offline. And the large capacity and high performance Lithium-ion battery module make the instrument' continuously working time to above 8 hours,
- With small size and light weight, the instrument can be hold by one hand. It's durable in use and lead industry trend.

RANGE

0~ 6000mm (at steel velocity); range selectable in fixed steps or continuously variable.

PULSER

Spike excitation with low, middle and high choices of the pulse energy.

Pulse Repetition Rate: manually adjustable from 10 to 1000 Hz.

Pulse width: fixed, nonadjustable

Damping: 100 Ω , 200 Ω , 400 Ω selectable to meet different resolution and sensitivity need.

Probe work mode: Single element, dual element and through transmission;

RECEIVER

Real-time sampling at 160MHz high speed enough to record the defect information.

Rectification: Positive half wave, negative halfwave, full wave, and RF

DB Step: 0dB, 0.1 dB, 2dB, 6dB step value as well as auto-gain mode

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ALARM

Alarm with sound and light,.

MERMORY

Total 100 configuration channels store all instrument operating parameters plus DAC/AVG curve; stored configuration data can be easily previewed and recalled for quick, repeatable instrument setup. Total 1000 datasets store all instrument operating parameters plus A-scan. All the configuration channels and datasets can be transferred to PC via USB port.

FUNCTIONS

Peak Hold:

Automatically searching the peak wave inside the gate and hold it on the display.

Equivalent diameter calculation: find out the peak echo and calculate its equivalent diameter.

Continuous Record: Record the display continuously and save it to the memory inside the instrument.

Defect Localization: Localize the defect position, including the distance, the depth and its plane projection distance.

Defect Sizing: calculate the defect size

Defect Evaluation: Evaluate the defect by echo envelope.

DAC: Distance Amplitude Correction

AVG: Distance Gain Size curve function

Crack measure: Measure and calculate the crack depth

B-SCAN: Display the cross-section of the test block.

REAL-TIME CLOCK

Real time clock for tracking the time.

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COMMUNICATION

USB2.0 high-speed communication port

SPECIFICATIONS

Range: (0 ~ 6000) mm

Bandwidth: (0.5 ~ 10) MHz

Material Velocity: (1000 ~ 9999) m / s

Dynamic Range: ≥ 32 dB

Vertical linear error: $\leq 3\%$

Horizontal linear error: $\leq 0.2\%$

Resolution: > 40 dB (5P14)

Sensitivity Leavings: 60dB (flat-bottomed deep hole 200mm Φ 2)

Rejection: (0 to 80)% Linear

Noise level: $\leq 10\%$

Power supply: DC 9V; lithium batteries work for 10hours or more

Ambient temperature: (-20 ~ 50) °C

Relative Humidity: (20 ~ 95)% RH

Overall dimensions: 263 x 170 x 61 (mm)

MFD350 Standard Configuration

No.	Item	Quantity
1	Main Body	1
2	Straight Beam Probe 4P, 10mm	1
3	Angle Probe 4P8*9, 60°	1
4	Machine-probe Cable	1
5	Battery Module	1
6	Power Adapter (Charger)	1
7	Support Pillar	1
8	Manual	1
9	Instrument Case	1
10	Software with cable	1

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