

Ultrasonic Flaw Detector UFD-Z6



Measuring range: 1mm-15000mm

Precision value for: 0.01mm

Storage and interface: USB Connection

Continuous working time: 20 hours working time

Instrument turnning: 1.9 KG

The product gross weight: 5KG

Product can be colors: Black

Appearance size: 240*180*50mm

Specification:

Measuring range	1.0~15000mm	
Resolution	0.01mm(<100mm) 1mm(>100mm)	
Velocity	500~2000m/s 20 fixed sound velocity	
Display delay	-20~3400us resolution: 0.1us	
Probe delay	0~99us resolution: 0.01us	
Auto calibration	Measurement and setting of sound velocity and probe delay using two known calibration echoes (2-point calibration)	
Linear error	Horizontal linearity error≤0.1% Vertical linearity error ≤3%	
Dynamic range	≥36dB	
Sensitivity leavings	≥64dB 200mmФ2 flat-bottomed hole	
Dimension (mm)	240×180×50	
Weight	1.9Kg(including battery pack)	
Working environment	Temperature: 0° C \sim 60 $^{\circ}$ C Humidity: $20\% \sim$ 90%	
Transmission Puls	Transmission Pulse	
Drive Pulse	Negative pulse/Square Wave	
Pulse Width	50~2000ns	
Pulse Amplitude	50-500v	

Pulse repetition frequency	Pulse repetition frequency PRF could be adjusted		
Damping	$50/150/250/400\Omega$		
Receiving System	Receiving System		
Testing mode	Pulse echo/ transmitting and receiving /transmission		
Measuring mode	Peak /Verge		
Gain	0 to 110dB Customers define steps 0/0.2/0.5/1/2/6/12		
Detector Pattern	RF/full-wave/positive /negative half- wave		
Frequency bandwidth	0.3~1 / 0.5~4 /2~15MHz broad band filter 1/2.5/5/10/15 MHz narrow band filter		
Display			
LCD	Wide temperature high-light TET color LCD 5.7" industrial class		
Backlight	5 grades could be chosen		
Display refresh frequency	Not less than 60Hz		
GUI theme	5 GUI color themes: simple/classical/gray/bright light/ dark light Customers could choose theme by setting color of characters A wave scan coordinate color background		
Gate /Measuring /	Alarm		
Gate	Two separated gates A/B		
Measuring Value	5 value display areas one of them is mainly area. Chosen measuring content SA/SB/DA/DB/PA/PB/A%A/A%B/dBtA/dBtB/dBrA/dBrB/SBA/DBA/PBA/LA/LB		
Alarm	All gates could alarm logically and independently		
Memory			
Channel parameters	20 groups		
A-scan wave	3200 group		
Thickness value	320000linear		
Wave Video	10 min		

Reference wave	4		
Input/Output			
Probe cable	LEMO/BNC		
Communication	RS232/USB		
Region	Region		
Time	Real time date and time		
Language	Chinese English		
Unit	mm/inch		
Power			
Battery	High power lithium battery capable of preventing over-charge and over-discharge		
Power Indicator	Monitor power based on coulombmeter showing remaining capacity of battery via percentage and battery life		
Working time	Continuous working over 20 hours		
Power adapter	Input 100~240V/50~60Hz output 9VDC/4A		
High Grade			
Dynamic Echo	Digital Nature Simulation Perfermance		
Memory key Store	3 kinds of data report screenshot wave thickness value		
Grate	Analysis the details of the wide gate area		
two- dimensional coding B scanning	Thickness/ Shape scanning Gray/Color board Design		
Echo Coding	Two chosen coding matter: coordinate/waveform it is convenient to calculate span		
Freezing Curve	All/peak value/contract/envelope/delay envelope		
Feature Indicator	Measuring of the sound distance wave front & amplitude		
CSC Curve Calibration	Value correction according to probe angle thickness of pieces and curvature diameter		
Lock	Single menu independently lock to avoid system adjust related data; Data group could lock to avoid wrong delete		

Screen saver	Standby/Character/Power Off
Equivalent curve	
DAC curve	Recording 30 calibration points; auto gain; any order calibration; two correction matter calibration/edit; considering of material attenuation and surface saving factor; 5 estimate curves of adjusted gain comply to JIS&API standard
DGS Curve	DGS Curve fits to three references includes flat bottomed flat-bottomed hole through holes; considering of material attenuation and surface saving factor estimating flaw matter; equivalent size/equivalent gain/percentage;
Standard Package	
Main Body	1
Straight /Angle probe	2
Probe Cable	1
Power adaptor	1
Battery	1 group
Operating manual	1
Carrying case	1
Coupling Paste	1 bottle
Optional accessory	У
Interface Gate	Applied when flaw detector in a environment which has medium e.g water
Printer	TP serial printer 3 data report: screen shot wave thickness value
Communication	USB