

## Ultrasonic flaw detector A1212 MASTER



The **A1212 MASTER** can detect various defects and inclusions in materials and can determine the dimensions of such defects. The A1212 MASTER can inspect metals, plastic, glass etc. The ergonomic design, friendly interface, small weight (650 g) and high-contrast display, with backlight, highlights the advantages of this instrument over competitors. The pulse repetition rate is 300 Hz. It comes with T.V.G. function and D.G.S. diagrams. Connection to a PC is via high-speed USB-port.

### Areas of applications

Oil and chemical industry  
Power plants (Nuclear, thermal and special fuels)  
Tube manufacturing and metallurgical labs  
Transport and machine-building factories  
Aviation  
Shipbuilding and ship-repairing  
Municipal services

### Special features

reliable design and construction in accordance with IP65  
large set-up library (100 configurations)  
programmed pulse shape  
pulse repetition frequency (PRF) up to 300 Hz  
traditional A-scan display  
additional modes: “freeze frame”, “electric time zoom”, **B-scan**  
TCG function (32 point interpolation)  
automatic detection of signal level and location of defects (in coordinates) using ASD (two time windows)  
manual measurement of received signal amplitude and coordinates with the help of display cursors  
nonvolatile memory for 1000 screen captures (A-scan with corresponding parameters)  
high-speed USB-port for connection to PC  
compatibility with wide range of transducer types  
DGS-diagram built-in  
B-scan imaging and saving (up to 50 profiles)

### Technical features

Sweep duration (smooth changing)	5.0 - 1300 $\mu$ s
Operating frequencies	0.8 – 15.0 MHz
Tuning range of velocity	1000 - 15000 m/s
Frequency band	0.5 - 15 MHz
Attenuation adjustment range	0 - 80 dB (with 1dB step)
Display type	LCD (w/LED illumination., 320 x 240 pix)
Operating temperatures	-20C to +50°C
Power	6 Alkaline AA type batteries
Operating time (with backlight)	15 hours (12 hours)
Size	245 x 120 x 40 mm
Weight	650 g



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