



PLU-6P-02 Transducer



The transducer is used to determine the speed of a longitudinal acoustic wave with normal input of ultrasound waves. The transducer is used for a wide range of problems (defectoscopy of metals, alloys, coatings, plastics, determination of materials elasticity moduli, etc.), one of the two transducers included in the standard set for the UDL-2M defectoscope.

1. Specifications:

Number of elements: 1

Frequency band: 0.1 – 6 MHz

Acoustic beam width: 3 mm

Probe pulse duration: ~ 70 ns

Maximum penetration depth:

- for aluminum alloy – 400 mm

- for composite materials – 35 mm

Overall dimensions: 47 mm x 27 mm x 92 mm

Contact surface size: 18 mm

Weight: 180 g

Connectors: DB9M, BNC, SMA (fiber optic connector)



Cable length: from 0.5 m to 5 m

Depending on the modification the power and type of backing of the transducer are different.

Can be part of an automated scanning system.

Power supply (part of UDL-2M defectoscope): ± 5 V DC

Power consumption: less than 200 mW

Terms of Use:

- ambient temperature + 15 °C - + 35 °C

- relative humidity at + 25 °C: 50 - 80%

2. Configuration:

- Opto-acoustic transducer: optional
- Optical beam focusing: optional