



PLU-6N-02 Transducer



A transducer pitch-catch configuration (inclined input of an acoustic waves) is used to determine the subsurface longitudinal acoustic wave velocity. The transducer is used for a wide range of tasks (determining the characteristics of carbon fibers, evaluating the quality of joints, defectoscopy of metals, alloys, coatings, vertical cracks, plastics, 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 – 15 MHz

Ultrasound input angle: 27 °

Base length: 30 mm

Acoustic beam width: 3 – 4 mm

Pulse repetition rate: not less than 0.5 kHz

Probe pulse duration: ~ 70 ns

Overall dimensions: 50 mm x 25 mm x 50 mm

Contact surface size: 9 x 18 mm

Weight: 50 g

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



Cable length: from 0.5 m to 5 m

Depending on the modification the power, base length and ultrasound input angle 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:

- Optical beam focusing: optional