

MD.6.

Title	Device for measurement of the microwire core diameter and the glass coating thickness by using the optical transparency phenomena.
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Description EN	The device include using two collimating sets with visible light and two collimating sets with of ultraviolet light, which include: light-emitting lens, collimating lens, optical shutters of rectangular or oval shapes, focusing lens for the light photo-detectors. The measuring method is based on light flows attenuation by microwire in the way as there are generated photocurrents of various values, depending on the microwire coat thickness and core diameter. The device include blocks of differential amplification which amplifies and filter the photocurrents, creates electrical signals with various voltage values, are converted into digital values used by the calculation unit for calculation of the core diameter and the microwire coat thickness.
Class no.	5, 10