The Appendix is an integral part of
Certificate of Accreditation No. 557/2022 of 21/11/2022

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

TESTIMA, spol. s r.o.
TESTIMA Calibration Laboratory
Husova 353/6, 250 01 Brandýs nad Labem

CMC for the field of measured quantity: Length

Ord. number [1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work-place
		min	unit	max	unit					
1	Ultrasonic thickness gauges	1 mm	to	100 mm			0.1 mm	Comparison with the value of the standard	KP 2	
2	Layer thickness gauges	8 µm	to	10200 µm			2.7 µm	Comparison with the value of the standard	KP 3	

[1] Asterisk at the ordinal number identifies the calibrations, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

[2] The expanded measurement uncertainty is in accordance with ILAC-P14 and EA-4/02, part of CMC, and it is the lowest value of the respective uncertainty. If not stated otherwise, its coverage probability is approx. 95 %. If not stated otherwise, the uncertainty values stated without a unit are relative to the value measured. The uncertainty value given here is based on the best laboratory conditions achievable; the uncertainty value of a particular calibration may be higher depending on the conditions of that calibration. For identical limit values of adjacent ranges, the lower uncertainty value always applies.

[3] If the document identifying the calibration procedure is dated, only these specific procedures are used. If the document identifying the calibration procedure is not dated, the latest edition of the specified procedure is used (including any changes).

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Husova 353/6, 250 01 Brandýs nad Labem

CMC for the field of measured quantity: Testing of properties and defects of materials

Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range min	unit		max	unit	Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
1	Analogue and digital ultrasonic defectoscopes								Signal display on the display scale	KP 1 (ČSN EN 12668-1: 2010)	
	Stability after heating	5 % SH		to	100 % SH			2(16/VS mm) %			
		5 % SW		to	100 % SW			2(16/SW mm) %			
	Display instability	5 % SH		to	100 % SH			2(15.3/SH mm) %			
		5 % SW		to	100 % SW			2(15.3/SW mm) %			
	Stability at voltage fluctuation	5 % SH		to	100 % SH			2(16/VS mm) %			
		5 % SW		to	100 % SW			2(16/SW mm) %			
	Vertical linearity	5 % SH		to	100 % SH			2.3 % SH			
	Time base linearity	1 mm			9,999 mm			0.05 %	Electrical signal simulation		
	Time base linearity of analog. instruments	1 mm			9,999 mm			2(18/SW mm) %			
	Equivalent input noise level	2 V/√Hz		to	100 V/√Hz			3.5 %	Calculation from measured values		
	Transmit pulse overshoot	2 V		to	500 V			7.9 %	Measurement of the transmitted signal by an oscilloscope		
	Transmitting pulse rise time, duration	3 ns		to	500 ns			7.9 %			
	Filter frequency upper and lower limit	0.2 MHz		to	30 MHz			2.8 %	Signal display on the display scale		
	Filter medium frequency	0.2 MHz		to	30 MHz			3.3 %	Calculation from measured values		
	Decibel attenuator accuracy	0 dB		to	120 dB			0.2 dB	Comparison with a reference standard		
	Frequency filter bandwidth	0.2 MHz		to	30 MHz			2.8 %	Calculation from measured values		

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Ord. number[1]	Calibrated quantity / Subject of calibration	Nominal range				Parameter(s) of the meas. quantity	Lowest expanded measurement uncertainty specified[2]	Calibration principle	Calibration procedure identification[3]	Work place
		min	unit	max	unit					
2	Digital ultrasonic defectoscopes							Signal display on the display scale	KP 9 (ČSN EN ISO 22232-1)	
	Display vertical linearity	5 % SH	to	100 % SH			2.3 % SH			
	Time base deviation	1 mm		9,999 mm			0.05 %	Electrical signal simulation		
	Noise level	2 V/√Hz	to	100 V/√Hz			3.5 %	Calculation from measured values		
	Transmit pulse voltage	2 V	to	500 V			7.9 %	Measurement of the transmitted signal by an oscilloscope		
	Transmitting pulse rise time, duration	3 ns	to	500 ns			7.9 %			
	Upper and lower limit frequency	0.2 MHz	to	30 MHz			2.8 %	Signal display on the display scale		
	Medium frequency	0.2 MHz	to	30 MHz			3.3 %	Calculation from measured values		
	Gain linearity	0 dB	to	120 dB			0.2 dB	Comparison with a reference standard		
	Bandwidth	0.2 MHz	to	30 MHz			2.8 %	Calculation from measured values		

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SH scale height on the display of the calibrated defectoscope in mm

SW scale width on the display of the calibrated defectoscope in mm