

Ultrasonic Thickness Meters

MX-1/2/3 MX-5DL MMX-6 PX-7DL

The Ultrasonic Thickness Measurement is used to determine the thickness of a material, for example the wall of a tank or pipe. The method of ultrasonic thickness measurement is also applicable for detecting material errors. The test technique is based on the fact that sound waves propagate differently quickly in different media.

Objects can also be inspected in the built-in state, as necessary in the case of pipes, tanks and only one-sided reachable parts. The sound waves are reflected at the rear side, and cavities, inclusions, cracks, etc. inside the part to be tested, reflect the sound pulse, and send it back to the probe, which acts as both transmitter and receiver.

MX-1, MX-2, MX-3 and MX-5DL



Measure the thickness of homogeneous materials

Detect material flaws, corrosion and pits

The Ultrasonic Thickness Gauges **MX-1, MX-2, MX-3 and MX-5DL** are easy-to-use devices for measuring the thickness of homogeneous material.

MX-1 offers one storable sound velocity.

MX-2 knows 8 fixed and allows 2 storable sound velocities.

MX-3 can determine the sound velocity based on a reference value, and the Scan mode helps to determine the minimum material thickness.

MX-5DL also has a data logger, an interface and more special functions.

A variety of transducers can be used with the devices.

General technical Data (MX-1,-2,-3,-5DL, MMX-6,-6DL)

Measuring Range:	depending on material/transducer 0.7 - 500 mm
Sonar Velocity Range:	1.250 – 10.000 m/sec
Resolution:	0.01 mm
Display:	4½ digit LCD, backlight
Measurement:	4 readings per second, 16 per second in Scan mode (MX-3 / MX-5DL)
Temperature Range:	-20° to 50° C
Power Supply:	2x 1.5V AA Mignon
Operating time:	approx. 130 hours
Dimensions:	120 x 65 x 32 mm
Weight:	295 g (with batteries)





MMX-6 and MMX-6DL

Measure the thickness of material, Detect flaws, corrosion and pits, and measure through coating: all with one device

The Ultrasonic Thickness Gauge **MMX-6** contains all the functions of the MX devices (as MX-5DL, but without its data logger) with the additional possibility of measuring even on coated parts without taking the coating into account during the measurement.

MMX-6DL also offers a data logger.

PX-7DL

Measure very thin material from 0.15 mm thickness, also on coated objects.

The Ultrasonic Thickness Gauge **PX-7DL** is a special device for the very accurate measurement of thin materials. The device works exclusively with Single Element Delay Line Transducers with two measuring functions. The Echo-Echo method is used for measuring very thin objects without the coating taking part in the measurement. Scratching or removing the coating is not necessary. The Pulse-Echo method is used for thicker material. In automatic mode, the device switches itself to the correct measuring function for the material thickness.

However, PX-7DL is not suitable for finding material pits and flaws.



Functions	MX-1	MX-2	MX-3	MX-5DL	MMX-6	MMX-6DL	PX-7DL
Editable sound velocity	X	X	X	X	X	X	X
Data Logger				X		X	X
Alarm Function				X	X	X	X
Scan Function			X	X	X	X	X
RS 232 interface				X	X	X	X
Echo-Echo Function					X	X	X
Pulse-Echo Function	X	X	X	X	X	X	X
Dual-Element Transducers	X	X	X	X	X	X	
Single-Element Transducers							X
Hi-damped Transducers					X	X	

