

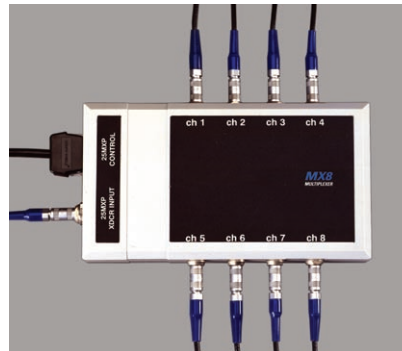


FEATURES

- Single and multipoint thickness measurements capabilities
- Accommodates up to eight transducers
- User selectable number of channels, channel sequencing, and channel rate
- Uses contact, delay line, and immersion transducers
- Transducer frequency range from 2 MHz to 30 MHz
- Wide thickness range, from 0.080 mm to 500.000 mm (0.003 in. to 20.000 in.), depending on application
- Resolution up to 0.001 mm (0.0001 in.)
- A-scan display for waveform verification
- Application Auto-Recall of stored standard and custom configurations
- Alphanumeric, file-based data logger stores 18,000 thickness measurements or 1,750 waveforms
- Handheld, intuitive operation, long battery life

MX-8 MULTIPLEXER

- 1 to 8 channels, user selectable
- Channel switching rate of 1 Hz, 2 Hz, 4 Hz, 8 Hz, 16 Hz, or 20 Hz, user selectable
- Dimensions (W x H x D): 81.3 mm x 149.9 mm x 31.8 mm (3.20 in. x 5.90 in. x 1.25 in.)
- Weight: 220 g (7.7 oz.)



Multipoint and Single Thickness Measurement Gage

The Panametrics 25MX PLUS is an ultrasonic precision thickness gage offering a cost-effective solution in applications where the opposite surface of test material is difficult or impossible to reach. Perform multipoint and single thickness measurements on a wide variety of materials including metals, plastics, rubbers, glass, fiberglass, and composites.

Multipoint Thickness Measurements

When connected to the optional MX-8 multiplexer, the 25MX PLUS can display the thickness measurements of up to eight separate transducers.

The 25MX PLUS software allows users to select the:

- Number of channels (1 to 8)
- Mux mode
 - Off
 - Single Channel (manual switching)
 - Single Sequence (switch through selected channels on command)
 - Sequence (continuous channel switching)
- Channel rate (1 Hz, 2 Hz, 4 Hz, 8 Hz, 16 Hz, or 20 Hz); thickness output and channel number)

Single Thickness Measurements

The 25MX PLUS operates as a standard precision thickness gage when it is not connected to an MX-8 multiplexer.

25MX PLUS Specifications*

MEASUREMENTS

Mode 1: Time interval between the excitation pulse and the first backwall echo, using contact transducers.

Mode 2: Time interval between the first interface echo after the excitation pulse and the first backwall echo, using delay line or immersion transducers.

Mode 3: Time interval between successive backwall echoes following the first interface echo after the excitation pulse, using delay line or immersion transducers.

Thickness measurement ranges:

Steel: 0.150 mm to 508.000 mm
(0.006 in. to 20.000 in.)

Plastic: 0.080 mm to 50.000 mm
(0.003 in. to 2.000 in.)

Thickness range depends on material, transducer, surface conditions, temperature, and selected configuration.

Material velocity range:

0.5080 mm/ μ s to 13.9979 mm/ μ s
(0.02000 in./ μ s to 0.55110 in./ μ s)

Resolution (keypad selectable):

LOW: 0.1 mm 0.01 in.
STANDARD: 0.01 mm 0.001 in.
HIGH: 0.001 mm 0.0001 in.

Battery: Rechargeable, 6 V NiMH battery pack or field-replaceable AA alkaline batteries.

Battery life: 40 hours in normal measurement mode without backlight.

Fast charger: Four hour fast charger with universal voltage.

Auto power off: On or off.

Transducer frequency range: 2 MHz to 30 MHz (-3 dB)

Operating temperature range: -10° C to 50° C (14° F to 122° F)

Keypad: Sealed, color-coded keypad with tactile and audible feedback.

Case: Impact-resistant and water-resistant, gasketed Lexan® case with sealed connectors. Rated IP65.

Metric/English units

Min/Max mode

Alarm modes: Programmable Hi/Low alarm with audible and visual indicators.

- 1) Standard Hi/Low
- 2) Previous thickness
 - Absolute
 - Percentage

Differential modes:

- 1) Thickness difference between actual measurement and reference value.
- 2) Percentage of difference between actual measurement and reference value.

Application Auto-Recall: Automatically adjusts internal parameters and zero offset for a wide variety of transducers.

Stored standard configurations: 25 stored transducer configurations allowing fast, easy calibration of Olympus NDT standard transducers.

Stored custom configurations: Up to 35 stored custom transducer configurations for best performance in special applications.

Dimensions (W x H x D):

138 mm x 238 mm x 38 mm
(5.45 in. x 9.375 in. x 1.5 in.)

Weight: 950 g (2.1 lb)

INTERNAL DATA LOGGER

Data logger and RS-232: Identifies, stores, recalls, clears, and transmits thickness measurements, waveform images, and gage configuration information through the RS-232 serial port. The baud rate, word length, stop bits, and parity are adjustable from the keypad.

Maximum number of stored values:

Standard: 18,000 thickness measurements or 1,750 waveforms with thicknesses.

Location codes: 8-character file name and 16-character alphanumeric location code input. Multiple comments per location.

File Structures: Seven standard or custom application-specific file structures.

Reports: On-gage reporting of the summary with statistics, Min/Max with locations, and file comparison. On-screen comparison of current and previous measurements.

DISPLAY

Display: Backlit liquid crystal display with contrast adjustable through the keypad. Display area (W x H): 102 mm x 86 mm (4.0 in. x 3.39 in.).

Backlight, Zoom mode, Freeze mode, and Hold/Blank

Rectification: RF, half-wave positive or negative, and full wave.

Waveform display range and delay control

STANDARD PACKAGE

25MX PLUS ultrasonic precision thickness gage, AC or battery operation, 50-60 Hz, with internal alphanumeric data logger. Includes a universal quick charger/AC adapter transducer cable, test block, couplant, RS-232 I/O Cable, carrying case, user's manual and two-year limited warranty

OPTIONAL ACCESSORIES

MX8: MX-8 multiplexer

PLUS/RPC: Rubber protective pouch with neck strap

36DLP/SPC/KIT: Protective pouch with neck strap

GAGEVIEW: Interface program for use with data stored in the internal data logger.

25DLP/EW: Extended limited warranty, third year

2214E: Five-step test block, 1018 steel, English units: 0.100 in., 0.200 in., 0.300 in., 0.400 in., 0.500 in.; metric available.

2213E: Five-step test block, aluminum, English units: 0.100 in., 0.200 in., 0.300 in., 0.400 in., 0.500 in.; metric available.

Contact Olympus NDT for other accessories for the 25MX PLUS.

OLYMPUS NDT INC. is ISO 9001 certified.

OLYMPUS

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