



Measuring range in steel

- 0.025 to 19.99 inches (0.63 to 508.0 mm)
- Housing is rated for dive depths up to 1000 ft (300 meters) with backlit display.
- Resolution of 0.001" (0.01 mm) user-selected units of inch or mm.
- Includes built-in datalogger for 5000 readings, settings and waveforms in sequential or "grid" (row/column) format.
- Automatic probe recognition and auto zero.
- Measure modes include Pulse-Echo, Pulse-Echo w/ Coating, Echo-Echo and Triple Echo.
- Measures BOTH wall and coating Thickness
- Both dual element and single membrane probes are available.
- Standard probe supplied is 1/2"-5MHz HD-Coating, Underwater.
- All gauge and datalogging settings can be done via software.
- Supplied with FREE NIST-Traceable Calibration Certificate.
- Supplied with FREE data analysis software and data transfer cable.
- CE-certified with 3-year warranty (90 days on probe).



Underwater Thickness Gauge

Model TI-UMX2

The new CHECK-LINE TI-UMX2 Underwater Wall Thickness Gauge accurately measures the **wall thickness** of all metals, extent of corrosion and the **thickness of coatings** on them—at depths down to 1000 feet (300 meters).



The TI-UMX2's back-lit, LCD display and illuminated housing allows divers to easily read measurements in dark water. Its over-sized, single control

button and clever menu structure (see side two) allow easy gauge setup and menu navigation above or below water even when wearing thick gloves.

The TI-UMX2 can store up to 5000 readings, including **A-Scan Waveforms** and settings for each individual measurement. There are two file structure options: sequential with auto identifier and alpha numeric grid (row/column) format. The UMX-2 can also transfer data and configuration settings to a PC using our DataComm software and transfer cable (included.)

The TI-UMX2 has eight preset velocities and one custom velocity allowing the user to customize it for specific applications.



TI-UMX Specifications

Range in Steel

<i>Pulse-Echo Mode (P-E)</i>	Pit and Flaw detection measures from 0.025" to 9.999" (0.63 to 254mm)
<i>Pulse-Echo Coating Mode (PECT)</i>	Material, Coating, Pit & Flaw Detection Material: 0.025" to 19.999" (0.63 to 500mm) Coating: 0.001 to 0.100 inches (0.01 to 2.54mm)
<i>Echo-Echo Mode (E-E)</i>	Thru Paint & Coatings measures from 0.100" to 4.000" (2.54 to 102mm). Range varies depending on the thickness of the coating.
<i>Triple-Echo Mode (TCG)</i>	Thru Paint&Coatings measures from 0.040" to 6.0" (1 to 150mm) in steel. Range varies based on coating thickness, material type, and probe

Resolution

Velocity Range

PreSet Velocities

1. Aluminum 2024	0.2510 in/μs
2. Steel 4340	0.2330 in/μs
3. Stainless Steel 302	0.2230 in/μs
4. Iron	0.2320 in/μs
5. Cast Iron	0.1800 in/μs
6. PVC	0.0940 in/μs
7. Polystyrene	0.0920 in/μs
8. Polyurethane	0.0700 in/μs
9. Custom User Set	

Probe (Standard)

Underwater Type, 1/2"-5MHz Dual-Element HD-Coating

Probe (Optional)

Underwater Type, 1/2"-3.5MHz Dual-Element HD-Coating (other probes types available)

Display

4½ - Digit, 0.5" Backlit LCD
(2nd Display for menus, 3/8" 6 character LCD)

Backlighting

Both Displays can be user set for ON/OFF/AUTO

Cable / Connections

4 ft. (1.2 m) waterproof cable with non-polarized, quick-disconnect connectors. Optional lengths up to 50 ft. (15 m). / Lemo, Underwater type

Battery Type / Life

Three 1.5V AA alkaline batteries (or 1.2V NiCad)
Backlight off Typical 50 hours on alkaline (15 hours on NiCad)
Backlight on Typical 15 hours on alkaline (8 hours on Nicad)



Datalogger

GRID or SEQUENTIAL data storage

Capacity

5000 wall & coating readings, settings and waveform graphics

Data Output

Bi-directional RS232 serial port, with USB converter. Windows® PC interface software

Operating Modes

Pulse-Echo (PE)
Pulse-Echo Coating (PECT)
Echo-Echo (EE)
Triple Echo TCG (EEE)

Pulser

Dual square wave pulsers

Receiver

Dual receivers - manual or AGC gain control with 110dB range (limited)

Manual Gain

Limited to 5 gain settings
vlow, low, med, high, vhigh (42 to 50 dB)

Temp. Limits

Ambient: -20 to 140° F (-30 to 60° C)

Housing

High strength transparent plastic;
Waterproof rating: IP 68,
Depth Rating: 1000 feet (300 meters)

Keypad

Single button, magnetically coupled switch

Size

Length 9.0" L (229mm) x 2.375 in W (60.33 mm)

Weight

1.5 lbs (680g) - with 3 AA batteries

Warranty

Gauge: 3 Years; Probe: 90 Days

Certification

CE Approved, Factory calibration traceable to national standard

Complete Kit

The TI-UMX2 is supplied as a complete kit with the gauge, standard probe, Velcro wrist strap, 4 oz. bottle of coupling fluid, AA batteries, NIST-Traceable Calibration Certificate, data transfer software, serial output cable with USB converter and spare gasket & lube kit including operating manual—all in a foam-fitted carrying case.



Menu Structure

UMX-2	MODE	UNITS	MATL	GAIN	ZERO	CLEAR	DIRECT
LT ON	P-E	IN	ALU	VLOW	AUTO	LOC	NORTH
LT OFF	PECT	MM	STL	LOW	MANUAL		SOUTH
LTAUTO	E-E		STST	MED	COATIN		EAST
MEMOFF	E-E-E		IRON	HIGH			WEST
UP GRAD			CRO	VHIGH			
			PYC				
			PLST				
			PLUR				
			CUSTOM				

Use of single button and clever menu structure permits easy navigation through all settings when underwater. Highlighted fields indicate default settings.



For additional information or to place an order CALL TOLL FREE 1-800-645-4330

Electromatic Equipment Co., Inc.
600 Oakland Ave.
Cedarhurst, N Y 11516 —USA

Tel: (800) 645-4330 (USA & Canada)
Tel: (516) 295-4300
Fax: (516) 295-4399

Email: info@checkline.com
Website: www.checkline.com