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38DL PLUS
Ultrasonic Thickness Gauge

The 38DL PLUS is an innovative instrument that signals a new era in ultrasonic thickness gaging. Ideally suited for almost every ultrasonic thickness application, this handheld thickness gage is fully compatible with a full line of dual and single element transducers. The versatile 38DL PLUS can be used in applications ranging from wall thinning measurements of internally corroded pipes with dual element probes to very precise thickness measurements of thin or multilayer materials with single element transducers.
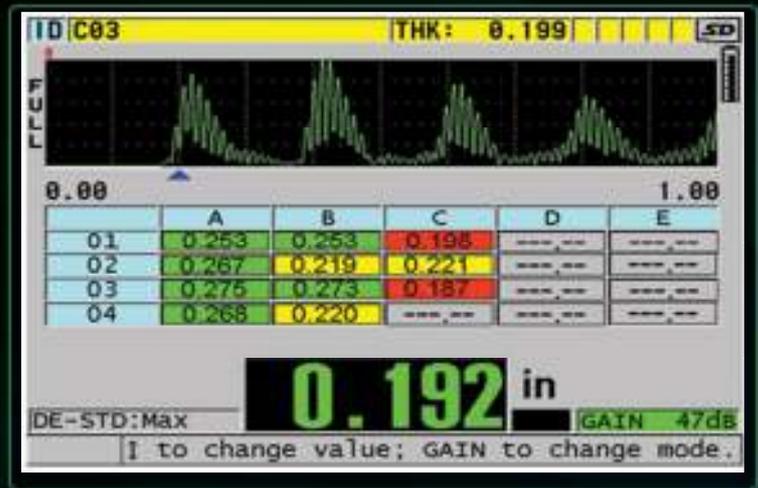
The 38DL PLUS comes standard with many powerful but easy-to-use measurement features and a host of application-specific software options. Its sealed case is designed to meet IP67 requirements to withstand the rigors of very wet or dusty environments. The colour transflective VGA display provides superior readability from bright sunlight to complete darkness. It features a simple, ergonomic keypad that can be operated with the left or right hand for easy access to all functions.

The 38DL PLUS is designed to meet the challenges of demanding applications and built to withstand tough conditions in the field and on the production floor. Whether you work in very wet or dusty conditions, cold or hot climates, or bright or dark areas, the 38DL PLUS can handle any inspection job. Need an instrument tough enough to tolerate shocks, drops and rough handling? The 38DL PLUS with its protective rubber boot and designed for IP67 rating is your answer.

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Technical Specifications

Measurements		General	
Dual element transducer measurement mode	Time interval from a precision delay after the excitation pulse to the first echo	**Operating temperature range**	−10 °C to 50 °C (14 °F to 122 °F)
		Keypad	Sealed, color-coded keypad with tactile and audible feedback
THRU-COAT® measurement	Measurement of true metal and coating thicknesses with a single back-wall echo (with D7906-SM and D7908 transducers)	**Case (Designed for IP67)**	Impact-resistant and water-resistant, gasketed case with sealed connectors.
		Dimensions (W x H x D)	Overall: 125 mm x 211 mm x 46 mm (4.92 in. x 8.31 in. x 1.82 in.)
Thru-Paint Echo-to-Echo	Time interval between two successive back-wall echoes to eliminate paint or coating thickness	**Weight**	0.814 kg (1.80 lb)
		Power supply	AC/DC adaptor, 24 V; lithium-ion battery 23.760 Wh; or 4 AA auxiliary batteries
Single element transducer measurement modes	Mode 1: Time interval between the excitation pulse and the first back-wall echo	**Battery life, lithium-ion**	Operating time: minimum 12.6 h, 14 h typical, 14.7 h maximum
	Mode 2: Time interval between the delay line echo and the first back-wall echo (with delay or immersion transducers)		Fast charge: 2 h to 3 h
		Standards	Designed for EN15317
	Mode 3: Time interval between successive back-wall echoes following the first interface echo after the excitation pulse (with delay line or immersion transducers)	**Display**	
		Colour transflective VGA display	Liquid crystal display, display area 56.16 mm x 74.88 mm (2.2 in. x 2.95 in.)
		Rectification	Full wave, RF, half-wave positive, or half-wave negative
Thickness range	0.080 mm to 635.00 mm (0.003 in. to 25.000 in.) depending on material, transducer surface conditions, temperature, and selected configuration	**Inputs/Outputs**	
		USB	1.0 client
Material velocity range	0.508 mm/µs to 13.998 mm/µs (0.020 in./µs to 0.551 in./µs)	**RS-232**	Yes
Resolution (selectable)	Low: 0.1 mm (0.01 in.)	**Memory card**	Maximum capacity: 2 GB External MicroSD memory card
	Standard: 0.01 mm (0.001 in.)	**Video output**	VGA output standard
	High Resolution (optional): 0.001 mm (0.0001 in.)	**Internal Data logger**	
Transducer frequency range	Standard: 2.0 MHz to 30 MHz (−3 dB	**Data logger**	The 38DL PLUS identifies, stores, recalls, clears, and transmits thickness readings, waveform images, and gage configuration information through the standard RS-232 serial port or USB port.
	High Penetration (optional): 0.50 MHz to 30 MHz (−3 dB)	**Capacity**	475,000 thickness measurements/20,000 waveforms with thickness measurements
		File names, IDs, and comments	32-character file names and 20-character alphanumeric location codes with four comments per location
		Reports	On-gage reporting of summary with statistics, Min./Max. with locations, Min. review, file comparison, and alarm report