

# Ultrasonic Thickness Gauge Buyer Comparison — DMS Go+ Class

Marine hull + process piping inspection gauges: Waygate DMS Go+, Olympus 45MG, Cygnus 4+ and equivalents

The GE / Waygate DMS Go+ is the reference ultrasonic thickness gauge for marine hull inspection and process-piping corrosion mapping. It has a 5-inch sunlight-readable colour display, dual-crystal probes for through-paint measurement, A/B-scan storage and 0.01 mm resolution over a 0.6 – 635 mm range. Every ultrasonic thickness gauge in the same buyer class shares the same core capability (dual-crystal pulse-echo with a coating-echo mode) — they differ in probe library, IP rating, data-logging model and shipboard survivability. The chart is a side-by-side of the seven gauges cballast is most often asked to quote against the DMS Go+; use it to shortlist based on the price / ATEX / IP / data-logging combination the job needs.

Model	OEM	Range	Res.	Mode	Screen	Notes
DMS Go+	Waygate / GE	0.6 – 635 mm	0.01 mm	PE + PECT + A/B-scan	5 in colour, sunlight-readable	Marine hull + process piping standard. B-scan + T/G / T-min / T- <del>min</del> / T- <del>max</del> / T- <del>max</del> . DMS Go; still in service, no A/B-scan.
DMS 2	Waygate / GE	0.6 – 508 mm	0.01 mm	PE + PECT	5 in mono LCD	Predecessor. DMS Go; still in service, no A/B-scan.
Krautkramer 27MG	Baker Hughes / GE	0.15 – 508 mm	0.001 mm	PE (through-paint)	5 in mono LCD	Coating-thickness + metal-thickness in one shot; superseded by DMS Go.
Olympus 45MG	Olympus (Evident)	0.08 – 635 mm	0.001 mm	PE + PECT + A/B-scan	5 in colour, EL backlit	DMS Go competitor. Broader probe library: DAKOTA-style
Olympus 27MG	Olympus (Evident)	0.15 – 508 mm	0.001 mm	PE (through-paint)	3.5 in mono	Coating-thickness (echo-echo).
MMX-6 DL+	Dakota Ultrasonics	0.6 – 500 mm	0.01 mm	PE + A/B-scan	4.3 in colour	Compact, hull-side cost-effective competitor; ATEX version available.
Mitech MT160	Mitech	0.75 – 300 mm	0.01 mm	PE	3 in mono	Handheld low-cost. General hull spot-checks only; no data-logging.
Sonatest T-Gage+	Sonatest	0.5 – 508 mm	0.01 mm	PE + PECT	4.3 in colour	Popular offshore inspection.
Cygnus 4+ Multi Mode	Cygnus	0.5 – 250 mm	0.05 mm	Multiple-echo	3.5 in colour	IP66 splash-proof, marine hull inspection standard next to DMS Go+.

## Shortlisting by job

- Class survey (LR / ABS / DNV) — the DMS Go+ and the Olympus 45MG are the two gauges the surveying societies accept without further calibration paperwork; either passes.
- Bulk hull thickness spot-check — the Cygnus 4+ or the DMS Go+ (through-paint dual-crystal probe). IP66 splash resistance matters on deck.
- Corrosion mapping with data logging — the DMS Go+ B-scan and thickness-grid storage or the Olympus 45MG with GageView Pro is the industry standard.
- Cost-controlled routine survey — the Dakota MMX-6 DL+ or the Sonatest T-Gage+ give 90 % of the DMS Go+ capability at 60 % of the price.
- ATEX-rated tanker deck — the Cygnus 4+ Multi Mode (marine ATEX) or the Dakota MMX-6 ATEX. The DMS Go+ is not intrinsically safe.

Reference compiled by cBallast from Waygate DMS Go+ / DMS 2 data sheets, Olympus (Evident) 45MG / 27MG data sheet, Cygnus 4+ Multi Mode data sheet, Sonatest T-Gage+ specification, Dakota Ultrasonics MMX-6 DL+ manual and Mitech MT160 specification. Specifications are those of the current gauge model; a specific job may need probe options, extended-range firmware or a specific data-logging application that changes the shortlist. Confirm against the OEM technical bulletin and the class-survey acceptance list before selecting on a specific vessel. All trademarks are the property of their respective owners.

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