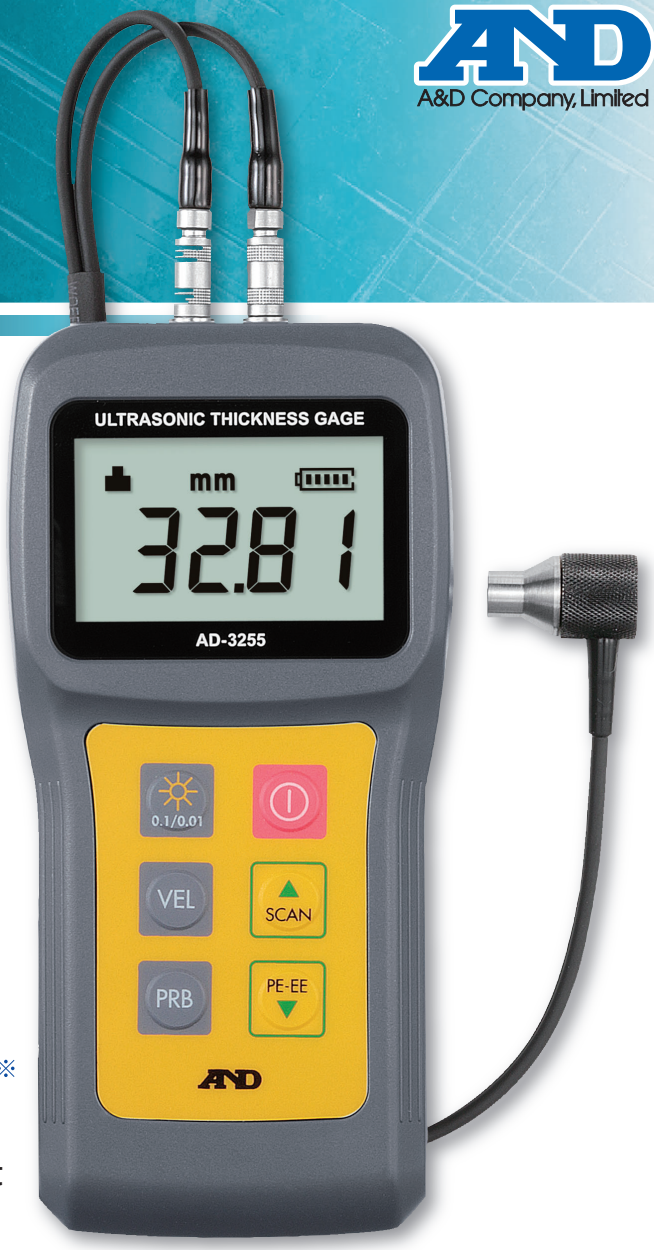
AD-3255
Ultrasonic Thickness Gage

A&D Company, Limited



Measure the thickness of materials such as metal, glass, plastic, ceramic and epoxy

- **One device covers a 0.8 - 300 mm measurement range**
- **0.01 mm display resolution (display can switch between 0.01/0.1mm)**
- **Equipped with scan mode for measuring minimum thickness range**
- **Four types of probes can be used to suit your needs**
- **Measurement through paint is possible**※
  (Optional probe AD-3255-04 is used)
  With Echo-echo mode, the thickness of an object excluding paints and coatings can be measured.

※ When coating thickness is less than 1 mm and the ratio of coating thickness to measurement target thickness is greater than 1:8, the thickness of the measurement target can be measured automatically excluding the coating. However, this function does not work with certain coatings or measurement targets. Additionally, coating thickness cannot be measured.

Measuring Unit Specifications		AD-3255
Measurement method		Ultrasonic pulse reflection method
Measurement unit		mm
Measurement frequency		Single point mode: 7 times per second, scan mode: 16 times per second
Measurement range	Pulse-echo mode	AD-3255-02 7 MHz probe (standard probe): 0.8 to 200.0 mm AD-3255-03 5 MHz probe (optional): 1.0 to 300.0 mm AD-3255-04 5 MHz probe (optional): 2.0 to 300.0 mm AD-3255-05 2.5 MHz probe (optional): 3.0 to 300.0 mm
	Echo-echo mode	AD-3255-04 5 MHz probe (optional): 4.0 to 30.0 mm (※measurement through paint)
Measurement accuracy ※		± 0.1 mm ± 0.5% (measurement range 0.8 to 50.0 mm) ± 0.1 mm ± 1.5% (measurement range 50.1 to 300.0 mm)
Accuracy guaranteed temperature range		5 to 40℃
Sound velocity variable range		1000 to 9999 m/s
Display range		0.65 to 600.0 mm
Display resolution		0.01 mm/0.1 mm (display resolution is 0.1 mm past 200.1 mm)
Measurable materials		Metal, glass, plastic, etc.

※ Measurability and accuracy depend on and are effected by the surface of the target.

General Specifications

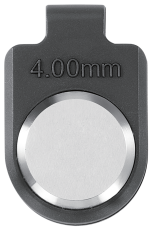
Display	Segment LCD display (with backlight)
Power supply/battery life	2 AA alkaline batteries/30 hour continuous operation (25℃, with backlight off, 4 mm measurement)
Auto power off function	After 5 minutes of inactivity, the display will blink for 20 seconds then shut off automatically.
Battery capacity indicator	When battery charge is low the battery mark will blink.
Operating temperature/humidity range	0 to 50℃, 85% RH or less (no condensation)
Storage temperature/humidity range	-10 to +55℃, 85% RH or less (no condensation)
Dimensions/weight	73 (W) × 143 (H) × 32 (D) mm/approx. 160 g (without battery)
Accessories	1 AD-3255-02 7 MHz probe (standard probe), 1 AD-3255-01 4 mm equivalent test piece, 1 carrying case, 1 strap, 1 empty bottle for contact medium, 1 instruction manual

Ultrasonic Thickness Gage AD-3255

- **Probe zero point can be calibrated. 4 mm equivalent test piece included**
- **Probes can be exchanged**
- **Sound velocity calibration is possible**
  Single point and two-point calibration as well as numerical inp ut calibration are possible, configuration and calibration data are recorded
- **Coupling status displayed for contact status confirmation**
- **Low battery display**
- **Auto power off**
- **Backlight for use in dark environments**

Options and accessories

4.00 mm equivalent test piece (with strap)	7 MHz probe (standard probe)	5 MHz probe	5 MHz probe	2.5 MHz probe
AD-3255-01	AD-3255-02	AD-3255-03	AD-3255-04	AD-3255-05











Probe Specifications		AD-3255-02	AD-3255-03	AD-3255-04	AD-3255-05
Frequency		7 MHz	5 MHz	5 MHz	2.5 MHz
Transducer diameter		ϕ6 mm	ϕ10 mm	ϕ10 mm	ϕ14 mm
Measurement range	Pulse-echo mode	0.8 to 200.0 mm	1.0 to 300.0 mm	2.0 to 300.0 mm	3.0 to 300.0 mm
	Echo-echo mode	---	---	4.0 to 30.0 mm	---
Cable length		Approx. 85 cm	Approx. 85 cm	Approx. 115 cm	Approx. 85 cm
Applications		Thin material, tube walls, curved surfaces. Pulse-echo mode	Thick material. Pulse-echo mode	Thick material. Pulse-echo mode ※Through paint. Echo-echo mode	Thick material, attenuating & scattering material. Pulse-echo mode
Minimum measurable pipe		Diameter ϕ15× wall thickness 2.0(mm)	Diameter ϕ20× wall thickness 3.0(mm)	Diameter ϕ20× wall thickness 3.0(mm)	Diameter ϕ30× wall thickness 4.0(mm)

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...Clearly a Better Value
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⚠ Attention to Safety! ● For proper use, read the instruction manuals carefully before

※ Appearance and/or specifications subject to change or improvement without notice.
※ Contents of this catalog last updated June 2026.