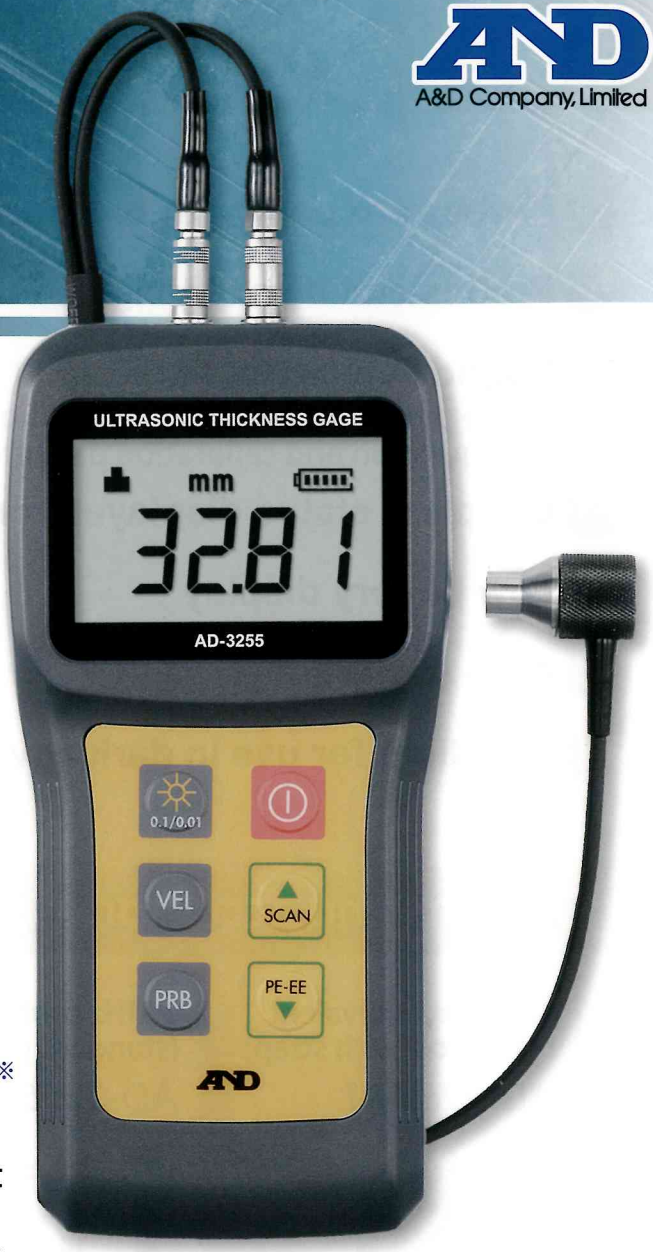
# AD-3255
# Ultrasonic Thickness Gage

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**
- **Three 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<br>AD-3255-03 5 MHz probe (optional): 1.0 to 300.0 mm<br>AD-3255-04 5 MHz probe (optional): 2.0 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)<br>± 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 input 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)**
*AD-3255-01*




**7 MHz probe (standard probe)**
*AD-3255-02*




**5 MHz probe**
*AD-3255-03*




**5 MHz probe**
*AD-3255-04*




| Probe Specifications | | AD-3255-02 | AD-3255-03 | AD-3255-04 |
|---|---|---|---|---|
| Frequency | | 7 MHz | 5 MHz | 5 MHz |
| Transducer diameter | | φ6 mm | φ10 mm | φ10 mm |
| Measurement range | Pulse-echo mode | 0.8 to 200.0 mm | 1.0 to 300.0 mm | 2 to 300.0 mm |
| | Echo-echo mode | --- | --- | 4 to 30.0 mm |
| Cable length | | Approx. 85 cm | Approx. 85 cm | Approx. 115 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 |
| Minimum measurable pipe | | Diameter φ15× wall thickness 2.0 (mm) | Diameter φ20 × wall thickness 3.0 (mm) | Diameter φ20 × wall thickness 3.0 (mm) |

※ 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.


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

※ Appearance and/or specifications subject to change or improvement without notice.
※ Contents of this catalog last updated August 2016.


*AD3255-ADCC-01-AD1-17602GP