

Ultrasonic Thickness Gauge

Model MT160



VorTek Instruments' MT160 ultrasonic thickness gauge is a compact handheld device that can measure the thickness of various materials with a high degree of accuracy. Every MT160 ultrasonic thickness gauge comes standard with an integrated metal disc to properly calibrate the device before each use.

The MT160 gauge has no wear and does not require the process to be stopped as the measurement is taken on the outside of the pipe. With data logging capability and a wide range of transducers to choose from, the MT160 will accommodate your specific application requirements.

MT160 Advantage:

- Non-invasive pipe wall thickness measurements
- Suitable for a wide range of acoustically conductive materials
- Reliable – no moving parts, no wear
- Imperial/Metric unit selectable
- Battery life up to 100 hours (Two AA batteries required)
- Auto sleep and power off functionality to conserve battery usage
- Maximum application temperature of 572°F (300°C)
- Measuring Range: 0.030 in to 11.81 in (0.75 mm to 300 mm) in steel
 - 0.01 in or 0.001 in (0.1 mm or 0.01 mm) display resolution
- Accuracy
 - Imperial: $\pm (0.5\% \text{ Thickness} + 0.002)$ in
 - Metric: $\pm (0.5\% \text{ Thickness} + 0.04)$ mm
- Internal memory for storage of up to 20 data files
 - Each file can carry up to 99 values
- LCD display with backlight
- Multiple transducer types available
- Splash proof plastic carrying case standard on all models



VorTek
INSTRUMENTS

VorTek Instruments, LLC

8475 West I-25 Frontage Rd., Suite 300

Longmont, CO 80504 USA

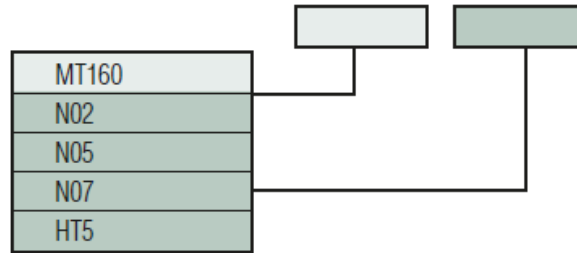
Tel: 303/682-9999 Fax: 303/682-4368

info@vortekinst.co

Transducer Selection

Transducer Model	Frequency (MHz)	Transducer Diameter (mm)	Measuring Range	Temperature Range	Description
N02	2.5	14	3.0 - 300.0 mm (0.12 - 11.81 in) (In Steel)	-22°F - 158°F (-30°C - 70°C)	For thick, highly attenuating, or highly scattering materials. Attenuating materials will absorb more of the ultrasonic sound wave, reducing the strength of the wave to a level that is difficult to read as it returns to the transducer. Materials that have a grain like structure will tend to scatter the ultrasonic sound wave, reducing the strength of the wave to a level that is difficult to read as it returns to the transducer.
N05 (Standard Transducer)	5	10	1.2 - 230.0 mm (0.05- 9.06 in) (In Steel)	-22°F - 158°F (-30°C - 70°C)	Normal measurement. This transducer covers a majority of applications.
N07	7	6	0.75 - 80.0 mm (0.03 - 3.15 in) (In Steel)	-22°F - 158°F (-30°C - 70°C)	For thin pipe wall or small curvature pipe wall measurement.
HT5	5	14	3.0 - 200.0 mm (0.12 - 7.87 in) (In Steel)	-22°F - 572°F (-30°C - 300°C)	For high temperature measurement applications. These transducers are built using special materials and techniques that allow them to withstand higher temperatures without the risk of damage.

Configuration



Regardless of which configuration is selected, each kit will include a handheld unit, ultrasonic couplant, and a portable carrying case.

Product Disposal Information

To ensure environmental safety and compliance, please follow these disposal instructions for the product and its components:

Electronic Components:

This product contains electronics that must be recycled through approved e-waste recycling programs. Electronics can contain harmful materials and should be prevented from entering landfills. Do not place electronics in regular trash.

Metal Parts:

Any metal components can be separated and recycled through your local metal recycling facility.

Packaging Materials:

Recycle or reuse packaging materials such as cardboard or plastics, following local recycling guidelines.

For local disposal sites, refer to:

- Call2Recycle (USA, Canada)
- Earth911 (USA, Canada)
- SERI (International)

In the USA, for more information, visit:

- EPA's battery disposal guide
- EPA's electronics recycling page

By following these guidelines, you help reduce waste and support environmental sustainability.