

Intrinsically-Safe Ultrasonic Wall Thickness Gauge 1071-Ex



The calibration functionality of the instrument means that adjustments can be made to compensate for the type of material being measured, this is done by one of two ways:



1. entering the sound velocity of the corresponding material
2. measuring a material with known thickness and adjusting the instrument to that reference.

These adjusted parameters then stay in the memory even when switching off the instrument. Display resolution and sensitivity are also fully adjustable and as with all the other functions, are easily selected from the straightforward menu.

With the 1071-Ex measurements of wall thicknesses can be made quickly and accurately in the range of 0.03 to 15.7" (0.7 to 400 mm).

There are three different probes available to cover this wide measuring range, each of which can be easily and conveniently changed inside the hazardous area.

Due to its compact size and operating time of over 200 hours this easy to use instrument is essential whenever the continuous supervision of minimum wall thicknesses is required.

For example, it is possible to check the thickness of protective coats or for the erosion of pipe or tank walls even while the plant is operating.

By using the limit value guides, minimum and maximum values can be set and are registered by an audible signal.

Technical data:

Ingress protection:	IP54
Dimensions:	4.7" x 2.6" x 1"
Weight:	5.3 oz
Operating temp.:	14°F to +104°F (-10 °C to 40 °C)
Storage temp.:	-4°F to 140°F (-20°C to 60°C) (without batteries)
Supply:	2 x primary cells AA to IEC LR6
Working time:	200 hours continuous operation 1-2 years stand-by
Probes:	can be exchanged in hazardous areas standard sensor operating temperature up to 392°F (200°C) for a short time
Couplant:	perfect connection between sensor and material
Vulcollan film:	prevents wear of probe if it is used on rough surfaces

To check for minimum wall thickness of pipes and tanks in hazardous areas

Ranges:

- standard probe: 0.06" to 10" (1.5 to 250 mm)
- mini probe: 0.03" to 1" (0.7 to 25 mm)
- low frequency probe: 0.2" to 15.7" (5 to 400 mm)


probes can be changed in Ex-zones

accuracy $\pm 0.0019"$ (0.05 mm)

Functions:

- limit value guides and monitoring
- adjustable sensitivity
- easy to use
- energy saving mode

Ex-data:

Ex designation:


EC-Certificate of Conformity:
 PTB 97 ATEX 2231 X



I.S. Class I Division I Groups A-DT4
 Class I Zone 0 AEx ia IICT4

Scope of supply:

Echometer 1071-Ex incl. primary cells, case and 100 ml of contact gel

Accessories:

standard probe DSE 10.4 / 6 PB 4
 handle-collar for standard probe
 vulcollan films (10 pcs.) for DSE 10.4 / 6 PB 4

low frequency probe DSE 18 / 25 PB 1.5
 handle-collar for low frequency probe
 vulcollan films (10 pcs.) for DSE 18/25 PB 1.5

mini probe DSE 4.2 / 4 PB 8
 handle-collar for mini probe
 vulcollan films (10 pcs.) for DSE 4.2 / 4 PB 8

ECHOTRACE contact gel 17 oz (500 ml)