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Ultrasonic measuring instrument for checking the authenticity of gold bars and coins

Features

- 1 You can use the TN-GOLD to determine whether gold or silver bars and coins are genuine or whether they contain a core of a different material
- The instrument measures the thickness of gold bars and gold coins using ultrasound
- Selectable measuring units: mm, inch
- 2 Process: Ultrasound waves are directed onto the test object using a sensor.
  The waves penetrate the test object, are then reflected from a surface opposite the object and then
  picked up again by the sensor.
  The measurement determined by this process will be compared with the material thickness as measured by a traditional calliper gauge.
  On the basis of the measurement given, false cores (Figure: grey) for example, those made of tungsten, lead, etc. can be easily identified, as the ultrasound reacts differently, compared with pure gold
- 3 SAUTER SSG software (included) can be used to calculate the sound velocity for various precious metal alloys. This makes it possible to determine whether coins or ingots contain false cores or whether they consist of one and the same material. Compatible with the following operating systems: Windows® 7/8/10
- Known additions in tested gold items – e.g. copper or silver – are compensated by the software
- In addition, the software determines the value of the gold item
- It is a test process which measures right through the whole bar or the whole coin without interference and thereby guarantees the highest level of certainty
- Internal memory for up to 20 files (with up to 100 values per file)
- Base plate for adjustment included
- Scope of delivery: Operating instructions, batteries, external measuring head (ø 6 mm) and ultrasound contact gel
- 4 Delivered in a robust carrying case

Technical data

- Measuring precision: 0,5 % of [Max] ± 0,04 mm
- Overall dimensions W×D×H 150×74×32 mm
- Battery operation, batteries standard (2×1.5 V AA), AUTO-OFF-function to preserve the battery
- Net weight approx. 0,25 kg

STANDARD



OPTION



Model	Measuring range	Readout	Sensor	Sound velocity	Option
					Factory calibration certificate
SAUTER	mm	[d] mm		m/sec	KERN
TN GOLD 80	0,75 – 80	0,01	7 MHz | ø 6 mm	1000 – 9999	961-113