

Coating Thickness Gauge NOVOTEST TP-2020



◀Description of Coating Thickness Gauge NOVOTEST TP-2020▶

Coating thickness gauge NOVOTEST TP-2020 is designed for thickness measuring of coatings based on ferrous and non-ferrous metals. Variety of various probes make it possible of non-destructive testing of protective coatings with a wide thicknesses range. Thickness gauge can also measure next parameters: the depth of grooves and corrosion, surface roughness as well as temperature control, ambient humidity and dewpoint temperature, therefore covering a wide range of tasks by one universal unit (thickness gauge).

To suit specific control requirements depending on the thickness, base and coating to be measured, there are various types of probes. Coating Thickness Gauge TP-2020 has a wide range of measured coatings (from 0 up to 60 mm), therefore is able to make protective coatings revision starting with films, body paint thickness to coatings of metal constructing, bridges, oil and gas pipelines and other objects with bitumen coatings.

Probes for Coating Thickness Gauge NOVOTEST TP-2020



Coating Thickness Gauge NOVOTEST TP-2020 has operating modes that make it able to rapidly and with high accuracy inspect of protective coatings:

- Normal – the device displays the value of the current measurement or the average over a series of measurements
- Control – used in cases where it is necessary to control the coating with clearly defined thicknesses. During measurements, coating thickness gauge illustrate the difference in thickness of the measured and reference coatings, analyzing which the operator makes conclusions about coating quality
- Statistics – monitor the following parameters of a series of measurements: maximum and minimum value, deviation, average value, number of measurements
- Automatic averaging mode – after each measurement, the device by default includes this result in the set of averaged values

Qualitative improvement of **Coating Thickness Gauge NOVOTEST TP-2020** are:

- ☐ Higher speed of measurements and readiness for another
- ☐ Sound and visual indication
- ☐ Built-in memory in thickness gauge, there are able to save the test results and transfer them to a PC
- ☐ Improving at measurement accuracy and stability
- ☐ Introduced new displaying measurements, thereby increasing the convenience of measuring.
- ☐ A full-fledged calibration of the thickness gauge with a conditionally unlimited number of points (up to 100 points) for calibration, which are able to set up thickness gauge by definite reference at the most accurate results. Therefore, there are practically haven't limitation of product shape and material bases. User can independently calibrate it in a couple of minutes instead of sending the thickness gauge to production as it was before.



◀ Advantages of Coating Thickness Gauge NOVOTEST TP-2020 ▶

- ☐ Measurement of coating thickness on ferrous (Fe) and non-ferrous (nFe) metals
- ☐ Automatic probe detection
- ☐ Wide range of probe for different tasks: measurement of coating thickness, temperature, humidity, dew point, roughness
- ☐ Selecting units of measure
- ☐ Storing individual calibrations in probes memory
- ☐ Average calculation, minimum and maximum indication
- ☐ High measurement accuracy
- ☐ Transfer of measurement data to PC via USB
- ☐ Portability
- ☐ Large buttons
- ☐ Enlarged screen
- ☐ Shockproof housing with a special protective silicone bumper case
- ☐ Charge control



◀ Specifications of Coating Thickness Gauge NOVOTEST TP-2020 ▶

Thickness measurement range(depends on probe type)	0 μm ... 60 mm
Measured parameter	coating thickness, corrosion depth, roughness, temperature, humidity, dew point temperature
Measuring units	μm, mm, inch, mil
Revision modes	calculation of average, indication of minimum and maximum
PC connection	yes
Menu languages	English, Spanish, French, Russian
Dimensions, mm	122x60x25
Operating temperature range, ° C	-20 ... +40 ° C
Batteries	2 AA
Type of connectors of probes	Lemo 00
Storage of measurement results and PC software (optional)	256
Time of continuous work hours, not less	20
Weight of electronic unit with batteries, no more, kg	0.2
Standard	AS 2331.1.4, AS 3894.3-B, AS/NZS 1580.108.1, ASTM B 499, ASTM D 7091, ASTM E 376, ASTM G 12, BS 5599, EN 13523-1, IMO MSC.215(82), IMO MSC.244 (83), ISO 1461, ISO 19840, ISO 2063, ISO 2178, ISO 2360, ISO 2808-7C, ISO 2808-7D, ISO 2808-12, NF T30-124, SSPC PA 2, US Navy PPI 63101-000, US Navy NSI 009-32, ASTM D 1186-B, ASTM D 1400, BS 3900-C5-6B, BS 3900-C5-6A, BS 5411-11, BS 5411-3, DIN 50981, DIN 50984, ECCA T1, ISO 2808-6A, ISO 2808-6B, SS 184159.



◀ Specifications of probes for Coating Thickness Gauge NOVOTEST TP-2020 ▶

Coatings on steel (dielectric and conductive coatings on ferromagnetic metals and alloys)				
<u>Type of probe</u>	<u>Coating thickness measurement range</u>	<u>Measurement accuracy</u>	<u>Dimensions of the probe, mm</u>	<u>Purpose</u>
probe F-0,3	0-300 μm	±(0,03h+0,001) mm	Ø5×40	Measurement of paint and varnish and galvanic coatings
probe F-0,5	0-500 μm	±(0,03h+0,001) mm	Ø 8×15	Measurement of paint and varnish and galvanic coatings
probe F-2	0-2000 μm	±(0,03h+0,002) mm	Ø 10×35	Measurement of paint and varnish coatings
probe F-5	0-5000 μm	±(0,03h+0,002) mm	Ø 18×35	Measurement of paint and varnish and mastic coatings

Coating on the non-magnetic metals (Any (dielectric or metal) coatings on non-ferrous metals and alloys)				
probe NF-2	0-2000 μm	±(0,03h+0,002) mm	Ø 12×35	Measurement of anodic-oxide films and paint coatings

Thick coatings on metals (dielectric coatings on metals)				
probe M-12	0-12 mm	±(0,03h+0,001) mm	Ø 15×50	Measurement of mastic coatings
probe M-30	1-30 mm	±(0,03h+0,002) mm	Ø 40×50	Measurement of mastic coatings
probe M-60	1-60 mm	±(0,03h+0,003) mm	Ø 70×60	Measurement of mastic coatings

Measurement of surface roughness, Rz (After abrasive blasting pre-painting work)				
probe DSH	2-300 μm	±(0,03h+0,002) mm	Ø 18×40	Measurement of surface roughness after sand and shot blasting

Temperature, humidity and dew point				
probe DT	-50...+80 °C	+ / - 1 °C	Ø 12×107	Temperature measurement
probe DTVR	Humidity: 0 - 100% Temperature: -50 ... 125 °C Dew point: - 15 - +40 °C	± 5 % ± 1 °C ± 2 °C	Ø 50×120	Measurement of temperature, humidity and dew point

**◀ Available options of Coating Thickness Gauge
NOVOTEST TP-2020 ▶**

- ☐ Additional probes for thickness gauge (depends on requirements)
- ☐ Batteries
- ☐ Charger
- ☐ Set of reference thickness samples

**◀ Standard set of Coating Thickness Gauge
NOVOTEST TP-2020 ▶**

- ☐ Coating Thickness Gauge NOVOTEST TP-2020
- ☐ Rubber bumper protected case
- ☐ Probe (1pc. among F-0.5, F-2, NF-2, DT)
- ☐ Set of reference thickness samples
- ☐ USB cable
- ☐ Batteries (AA) – 2 pcs
- ☐ Charger
- ☐ Operating manual
- ☐ Calibration certificate
- ☐ Case

