

CG100

Coating Thickness Gauge



PRECIMER

**STYLOTEST CG100**

DRY FILM PULL-OFF GAUGE FOR STEEL SUBSTRATES

FEATURES

- Measurement of paint coatings on steel
- Designed as a pen with a pocket clip
- Magnetic attraction principle featuring a permanent magnet
- Patented HOLD mechanism for last reading
- For open and recessed measuring areas
- Coloured zones for quick go/no-go quality assessment
- No power supply or batteries required

TECHNICAL SPECIFICATIONS

Measuring range	25 microns - 700 microns or 1mm - 28mm
Application	Paint coatings on steel substrates
Principle	Magnetic attraction
Accuracy	±10% of reading
Minimum measuring area	25mm diameter
Standards	Conforms to DIN-EN-ISO2178
Ambient temperature	-10°C ... 80°C
Dimensions	151mm length, diameter 10mm
Weight	Approx. 150gr

STANDARD DELIVERY

- Instrument
- Manual
- INNOVATEST® certificate

OPTIONAL ACCESSORIES

- Coating thickness standards

ORDER DETAILS

CG100 Coating thickness gauge for steel substrates



TT-220/TT-230

Coating Thickness Gauge





TT-220
WITH INTEGRATED F PROBE



TT-230
WITH INTEGRATED N PROBE

FEATURES

- Integrated probe: NO CABLES !
- With integrated F probe (TT-220) or integrated N probe (TT-230)
- Any non-magnetic coating on ferrous substrates (TT-220)
- Continuous or single measurement modes
- Statistics: Mean values/Max. values/Min. values/No./S.Dev
- Measurement readings stored
- Low battery indication
- Automatically switch off
- Real time or batch printing with TA-230 printer
- Rechargeable batteries

TECHNICAL SPECIFICATIONS

Probe type	F (TT-220) N (TT-230)
Operating principle	Magnetic induction (TT-220) Eddy current (TT-230)
Application	Any non-magnetic coating on ferrous substrates (TT-220) or insulating coatings on non-ferrous substrates (TT-230)
Measuring range	0µm - 1250µm
Minimum resolution	0.1µm (coating thickness <10µm)
Measuring accuracy	
Zero-point calibration	±(3%H+1µm)µm (TT-220) ±(3%H+1.5µm)µm (TT-230)
Two-point calibration	±(1%~3%H+1µm)µm (TT-220) ±(1%~3%H+1.5µm)µm (TT-230) (H= nominal value)
Sample	
Min. radius workpiece	Convexity 1.5 (TT-220) convexity 3 (TT-230)
Min. measuring area	ø7mm (TT-220) ø5mm (TT-230)
Min. sample thickness	0.5mm (TT-220) 0.3mm (TT-230)
Statistics	Average (MEAN), maximum values (MAX), minimum values(MIN), number of measurements (NO), standard deviation (S.DEV.)
Features	Real time printing or batch printing on TA-230 Continuous measurement (CONTINUE) and single measurement (SINGLE) Automatic switch off
Operating temperature	0°C - 40°C
Power supply	NiMH batteries, 3.6V
Dimensions	110mm x 53mm x 22mm
Weight	150gr

STANDARD DELIVERY

- Instrument
- Charger
- Calibration foil set
- Substrate
- Carrying case
- Pocket case
- INNOVATEST® certificate
- Manual

OPTIONAL ACCESSORIES

- Printer TA-230 with cable
- Certified calibration foils
- Connection cable

ORDER DETAILS

- TT-220** Coating thickness gauge with integrated F/ probe
TT-230 Coating thickness gauge with integrated FN probe

TA-230 MICRO PRINTER



PRECIMER

TT-260

Coating Thickness Gauge





TT-260
WITH INTEGRATED PRINTER AND EXTERNAL PROBES

FEATURES

- Robust design with removable integral printer
- Two measuring methods: magnetic induction (F) and eddy current (N)
- Large measuring range with several probes available
- Direct testing mode and block statistics mode (APPL/BATCH)
- Direct print out of statistical values
- Data transmission to pc with Dataview software
- Measurement modes: continuous / single
- Automatic calculation: Mean/Max/Min/No./S.Dev
- Memory up to 495 readings
- Low battery indication
- Switch off modes: manual and auto

TECHNICAL SPECIFICATIONS

Measuring range	0 μ m - 1250 μ m with standard probe F1, N1 (10.000 μ m maximum)
Probes available	Several probes available for F (ferrous; on steel/iron) and N (non-ferrous metals)
Tolerance	F1: $\pm(1\mu\text{m} + 3\%$ of reading) N1: $\pm(1.5\mu\text{m} + 3\%$ of reading)
Resolution	0.1 μ m
Display	Alphanumeric with 4 large digits
Operation language	English
Standards	Conforms to DIN, ISO, ASTM, BS
Min. measuring area	\varnothing 5mm (standard probe N1), \varnothing 7mm (standard probe F1)
Min. curvature radius	Convex: 3mm, concave: 50mm
Min. substrate thickness	Type F: 0.5mm, type N: 0.3mm
Calibration	Factory setting, zero and foil calibration
Statistics	Number of measurements, mean, standard deviation, maximum and minimum of maximum 3000 readings
Data memory	5 blocks of 99 readings can be stored for later reference
Limits	Adjustable with acoustic alarm
Interface	RS-232
Operating temperature	0°C - 40°C
Power supply	NiMH rechargeable batteries, 1.25V (4 pcs)
Dimensions	270mm x 86mm x 47mm
Weight	530gr

STANDARD DELIVERY

- Instrument
- Probe (F or N series selectable)
- Charger
- Substrate
- Calibration foils
- Carrying case
- Manual
- INNOVATEST® certificate

OPTIONAL ACCESSORIES

- Several probes for different applications
- PC software Dataview for online and data transfer
- Certified calibration foils in various thickness
- Connecting cable

ORDER DETAILS

TT-260 Coating thickness gauge with integrated printer and external probes series F or N



TT-270

Coating Thickness Gauge





TT-270
WITH INTEGRATED PRINTER AND EXTERNAL PROBE

FEATURES

- The measuring methods of the TT-270 are magnetic induction (F) and eddy current (N).
When a F series probe is connected, the unit measures non-magnetic coating on ferrous substrates, when a N series probe is connected, the unit measures non-conductive coating on non-ferrous substrates
- Several types of probes are available for various applications:
F400, F1, F1/90, F10, N1, CN02
- Measurement modes: continuous / single
- Automatic calculation: Mean values / Max. values / Min. values / No. of test, S.Dev.
- Memory for maximum 640 readings
- Working modes: direct mode (DIRECT) and Batch mode (APPL)
- With backlight display
- Integrated printer
- Battery low indication
- Switch off modes: manual and auto

TECHNICAL SPECIFICATIONS

Measuring range	Refer to the table below
Probes available	F400, F1, F1/90, F10, N1, CN02
Tolerance	Refer to the table below
Minimum resolution	Refer to the table below
Measuring condition	Refer to the table below
Operation language	English
Standards	DIN, ISO, ASTM, BS
Calibration	Zero and foil calibration
Statistics	Maximum and minimum, mean, standard deviation of 3000 readings, number of measurements
Data memory	640 readings
Limits	Min-max with alarm
Interface	RS-232
Working temperature	-5°C - 40°C
Humidity	20%~90%
Power supply	NiMH rechargeable batteries 1.25V
Dimensions	230mm x 86mm x 47mm
Weight	Approx. 530gr

STANDARD DELIVERY

- Controller unit & integrated printer
- Probe F1 or N1
- Charger
- Substrate & calibration foil set
- Printer paper
- Manual
- INNOVATEST® certificate

OPTIONAL ACCESSORIES

- Several probes for different applications

OPTIONAL PROBES AND TECHNICAL SPECIFICATION

Probe model	F400	F1	F1/90°	F10	N1	CN02
Operating principle	Magnetic induction	Magnetic induction	Magnetic induction	Magnetic induction	Eddy current	Eddy current
Measuring range (µm)	0-400	0-1250	0-1250	0-10000	0 to 1250 µm 0 to 40µm (for chromeplate on copper)	10~200
Low range resolution (µm)	0.1	0.1	0.1	10	0.1	1
Accuracy						
One-point calibration (µm)	±(3%H+1)	±(3%H+1)	±(3%H+1)	±(3%H+10)	±(3%H+1.5)	±(3%H+1)
Two-point calibration (µm)	±[(1~3)H%+0.7]	±[(1~3)H%+1]	±[(1~3)H%+1]	±[(1~3)H%+10]	±[(1~3)H%+1.5]	-
Measuring conditions						
Min curvature of the min area (mm)	Convex 1	1.5	Flatten	10	3	Flatten
Min diameter of the area (mm)	φ3	φ7	φ7	φ40	φ5	φ7
Critical thickness of substrate (mm)	0.2	0.5	0.5	2	0.3	unlimited

ORDER DETAILS

TT-270 F Coating thickness gauge with integrated printer and F1 probe

TT-270 N Coating thickness gauge with integrated printer and N1 probe

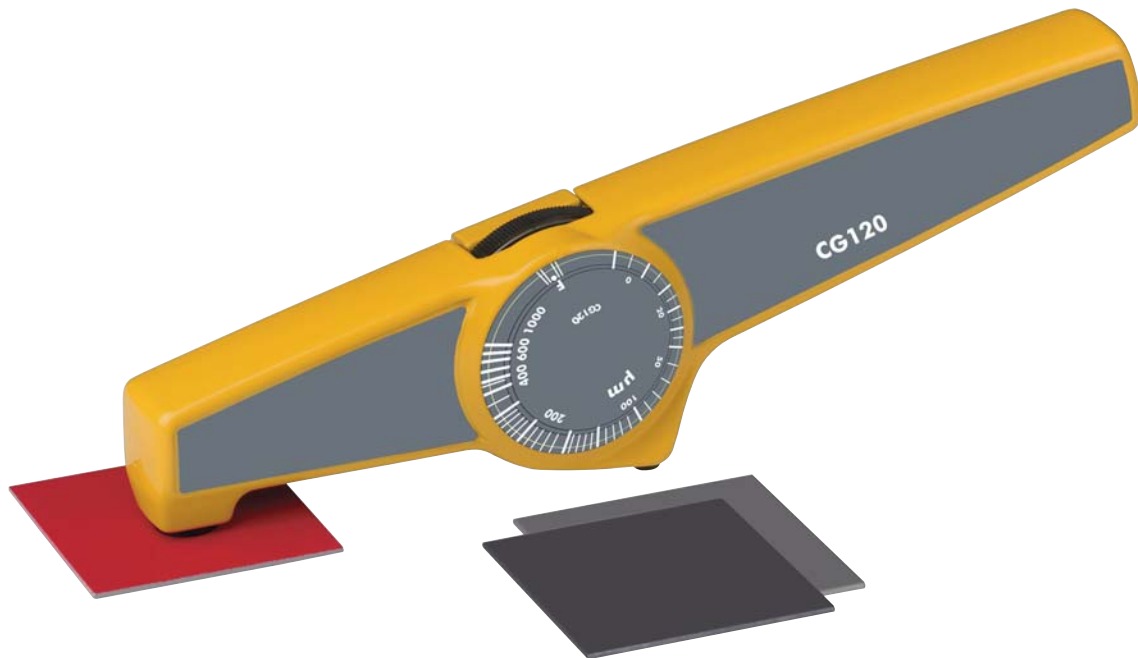
TT-270 FN Coating thickness gauge with integrated printer and FN probe

CG120

Coating Thickness Gauge



PRECIMER

**CG120 A SERIES**

COATING THICKNESS GAUGE, ANALOGUE

FEATURES

- Highest accuracy with simplest operation
- Several models with ergonomic design
(Type 5 = standard version or type 6 = automatic version)
- No calibration necessary
- All gauges without power or battery
- One point measurement with a non-wearing probe
- A robust metal case and system resistant to mechanical shocks, acids and solvents

PRECIMER

TECHNICAL SPECIFICATIONS

Standards	DIN-EN-ISO 2178, DIN 50982, ASTM B499, E376, D1186, G12, B530, BS 5411, ISO 2361
Range	0µm - 100µm (5G/6G), 0µm - 1000µm (5F/6F), 0.2mm - 3mm (6 S3), 0.5mm - 5mm (6 S5), 2.5mm - 10mm (6 S10), 0µm - 50µm (6 NiFe50)
Tolerance	±1µm or 5% of the reading (5G/6G), ±5µm or 5% of the reading (5F/6F), ±5% of the reading (6 S3/S5/S10), ±(2µm + 8% of the reading) (6 NiFe50)
Minimum base thickness	0.5mm (5G/6G/5F/6F/6 NiFe50), 1.0mm (6 S3/S5), 2.0mm (6 S10)
Application	Electroplating and the paint coatings on steel** (5G/6G), Paint on steel** (5F/6F), Enamel, plastic and rubber on steel * (6 S3/S5/S10), Electroplated nickel on steel (6 NiFe50)
Minimum surface	∅ 20mm (5G/6G/6 NiFe50), ∅ 30mm (5F/6F/6 S3), ∅ 50mm (6 S5/6 S10)
Minimum curvature radius of the sample	5mm convex/25mm concave (5G/6G), 8mm convex/25mm concave (5F/6F), 15mm convex/25mm concave (6 S3/S5/S10), 10mm convex/25mm concave (6 NiFe50)
Ambient temperature	-20°C ... 100°C
Dimensions	215mm x 55mm x 29mm
Weight	Approx. 450gr
** steel ST 33 to ST 60	*** special

STANDARD DELIVERY

- Instrument
- Plastic case
- Neck cord
- Manual
- INNOVATEST® certificate

OPTIONAL ACCESSORIES

- Gauges for specific applications
- Leather case for safe transport of the gauge on a belt
- Coating thickness standards
- Wet film gauge for measuring the thickness of wet coatings

ORDER DETAILS

- CG120 5G/6G** Coating thickness gauge, analogue, 0µm-100µm
CG120 5F/6F Coating thickness gauge, analogue, 0µm-1000µm
CG120 6 S3 Coating thickness gauge, analogue, 0.2mm-3mm
CG120 6 S5 Coating thickness gauge, analogue, 0.5mm-5mm
CG120 6 S10 Coating thickness gauge, analogue, 2.5mm-10mm
CG120 6 NIFE50 Coating thickness gauge, analogue, 0µm-50µm



CG330

Coating Thickness Gauges



PRECIMER



CG330
COATING THICKNESS GAUGE WITH 100 BATCHES

FEATURES

- Robust design, top quality instrument
- CG330 memory 10.000 readings, 100 batches
- Large measuring range with 20 probes available
- Direct testing mode and block statistics mode
- Large memory with block statistics computation
- Coating-through-coating feature
- Data output to printer CG300 or pc

TECHNICAL SPECIFICATIONS

Models available	20 probes available for F (ferrous; on steel/iron), N (non-ferrous metals) and FN (combined), see list
Measuring range	0 - 1600µm with standard probe F1.6 or N1.6
Tolerance	±(1µm + 1% of reading) with standard probes
Resolution	0.1µm
Display	Alphanumeric with 4 large digits
Operation language	English
Standards	DIN, ISO, ASTM, BS
Min. measuring area	5mm x 5mm (with standard probe)
Min. curvature radius	Convex: 3mm, concave: 50mm
Min. substrate thickness	Type F: 0.5mm, type N: 50µm
Calibration	Factory setting, zero and foil calibration
Statistics	Number of measurements, mean, standard deviation, maximum and minimum of maximum 10.000 readings
Data memory	10.000 individual readings and maximum 100 batches with individual values
Limits	Adjustable with acoustic alarm
Interface	RS-232
Ambient temperature	0°C - 50°C
Power supply	1 x 9V alkaline battery, AC adapter
Dimensions	Gauge 150mm x 82mm x 35mm
Weight	Approx. 270gr

STANDARD DELIVERY

- Gauge excluding probe
- Zero plate
- Calibration foils (2 pcs)
- Manual
- INNOVATEST® certificate

OPTIONAL PROBES

- Probes
(F or N or FN series selectable)
see overview

OPTIONAL ACCESSORIES

- Carrying case with accessories
- 20 probes for different applications,
see overview
- PC software for online and data
transfer
- Calibration foils in various thickness

ORDER DETAILS

CG330 Coating thickness gauge with external probes,
10.000 readings, 100 batches

CG300 PRINTER



PRECIMER



CG300
PRINTER

FEATURES

- Reliable and fast mini-printer for CG250/310/320/330/340/600
- Prints numerical values
- EPSON print head
- RS-232 input
- Power adapter included

TECHNICAL SPECIFICATIONS

Display	4 digit LCD
Functions	Paper feed, on/off
Data transmission	RS-232C
Print head	5 x 7 matrix Epson
Paper	50mm
Power	Storage battery 5V
Charger	5V / 2.4A
Dimensions	85mm x 152mm x 48mm
Weight	0.5kg

STANDARD DELIVERY

- Printer CG300
- Charger 5V
- Printer rolls (2 pcs)
- Storage battery 5V

OPTIONAL ACCESSORIES

- Data cable
- Printer paper (set of 5)
- Printer ribbon

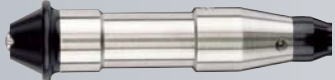
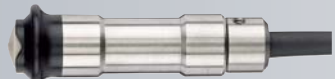







ORDER DETAILS

CG300 Printer for CG series



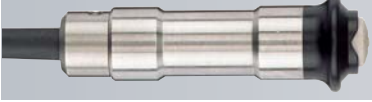


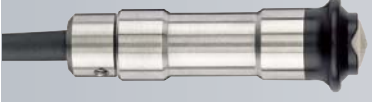
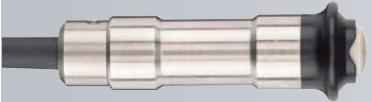


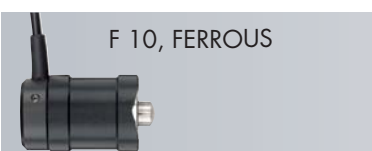
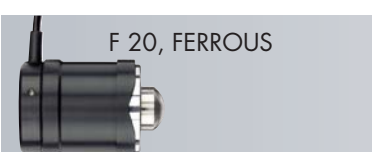
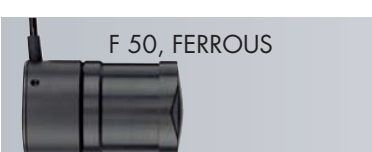
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PROBES FOR NON-FERROUS
CG-330

<p>N 02, NON-FERROUS</p> 	<p>Measuring range 0-200µm Min. area for measurement ø 2mm</p>	<p>Extremely thin insulating coatings, e.g. paint or anodising coatings on non-ferrous metal high resolution (0.1µm) in the lower part of the measuring range</p>
<p>N 08CR, NON-FERROUS</p> 	<p>Measuring range 0-80µm Min. area for measurement ø 5mm</p>	<p>Extremely thin chrome coatings on copper, aluminum or brass</p>
<p>N 1.6, NON-FERROUS</p> 	<p>Measuring range 0-1600µm Min. area for measurement ø 5mm</p>	<p>Thin insulating coatings, e.g. paint or anodising coatings on non-ferrous metal high resolution (0.1µm) in the lower part of the measuring range</p>
<p>N 1.6/90, NON-FERROUS</p> 	<p>Measuring range 0-1600µm Min. area for measurement ø 5mm</p>	<p>Thin insulating coatings, e.g. paint or anodising coatings on non-ferrous metal especially appropriate for measurements in tubes and pipes or objects which are difficult to access high resolution (0.1µm) in the lower part of the measuring range</p>
<p>N 2/90, NON-FERROUS</p> 	<p>Measuring range 0-2000µm Min. area for measurement ø 5mm</p>	<p>Insulating coatings, e.g. paint, on non-ferrous metal especially appropriate for measurements in tubes and pipes or objects which are difficult to access</p>
<p>N 10, NON-FERROUS</p> 	<p>Measuring range 0-10mm Min. area for measurement ø 50mm</p>	<p>Insulating coatings, e.g. rubber, plastics, glass, on non-ferrous metal</p>
<p>N 20, NON-FERROUS</p> 	<p>Measuring range 0-20mm Min. area for measurement ø 70mm</p>	<p>Insulating coatings, e.g. rubber, plastics, glass, on non-ferrous metal</p>
<p>N 100, NON-FERROUS</p> 	<p>Measuring range 0-100mm Min. area for measurement ø 200mm</p>	<p>Insulating coatings, e.g. rubber, plastics, glass, compounds etc., on non-ferrous metal</p>
<p>CN 02, NON-FERROUS</p> 	<p>Measuring range 10-200mm Min. area for measurement ø 7mm</p>	<p>Non-ferrous metal coatings, e.g. copper, on insulating substrates</p>

PROBES FOR FERROUS AND NON-FERROUS

CG-330

<p>FN 1.6, COMBINED PROBE</p> 	<p>Measuring range 0-1600µm Min. area for measurement ø 5mm</p>	<p>Non-magnetic coatings on steel and insulating coatings on non-ferrous metal high resolution (0.1µm) in the lower part of the measuring range</p>
<p>FN 1.6P, COMBINED PROBE</p> 	<p>Measuring range 0-1600µm Min. area for measurement ø 30mm</p>	<p>Powder coatings before baking on steel and non-ferrous metal</p>
<p>F 05, FERROUS</p> 	<p>Measuring range 0-500µm Min. area for measurement ø 3mm</p>	<p>Extremely thin metals, oxide or paint coatings on small steel objects high resolution (0.1µm) in the lower part of the measuring range</p>
<p>F 1.6, FERROUS</p> 	<p>Measuring range 0-1600µm Min. area for measurement ø 5mm</p>	<p>Non-magnetic coatings on steel high resolution (0.1µm) in the lower part of the measuring range</p>
<p>F 3, FERROUS</p> 	<p>Measuring range 0-3000µm Min. area for measurement ø 5mm</p>	<p>Non-magnetic coatings on steel, thick paint and enamel coatings</p>
<p>F 1.6/90, FERROUS</p> 	<p>Measuring range 0-1600µm Min. area for measurement ø 5mm</p>	<p>Non-magnetic coatings on steel especially appropriate for measurements in tubes and pipes or objects which are difficult to access high resolution (0.1µm) in the lower part of the measuring range</p>
<p>F 2/90, FERROUS</p> 	<p>Measuring range 0-2000µm Min. area for measurement ø 5mm</p>	<p>Non-magnetic coatings on steel especially appropriate for measurements in tubes and pipes or objects which are difficult to access</p>
<p>F 10, FERROUS</p> 	<p>Measuring range 0-10mm Min. area for measurement ø 20mm</p>	<p>Anticorrosive coatings in tanks and pipe construction, e.g. glass, plastics, rubber and concrete on steel</p>
<p>F 20, FERROUS</p> 	<p>Measuring range 0-20mm Min. area for measurement ø 40mm</p>	<p>Anticorrosive coatings in tanks and pipe construction, e.g. glass, plastics, rubber and concrete on steel</p>
<p>F 50, FERROUS</p> 	<p>Measuring range 0-50mm Min. area for measurement ø 300mm</p>	<p>Anticorrosive coatings in tanks and pipe construction, e.g. glass, plastics, rubber and concrete on steel antinoise coatings</p>

PRECIMER

CG500

Wall Thickness Gauge



PRECIMER


CG500

WALL THICKNESS GAUGE FOR METALS, GLASS AND PLASTICS

FEATURES

- New: Considerably improved measuring properties through SIDSP !
- Non-destructive wall thickness measurement up to 4mm and/or 10mm
- Up to 20 measurements per second
- For all non-magnetic materials such as plastics, wood, glass, ceramics, glass fiber, carbon fiber laminates, non-ferrous metals, etc.
- For hollow parts and containers of all kinds such as bottles, cans, injection moulding products, etc.
- Also for plastic sheets, automotive body parts, glass panes, SMC plastics other large-sized components, etc.
- Complete measuring technique is integrated in the sensor

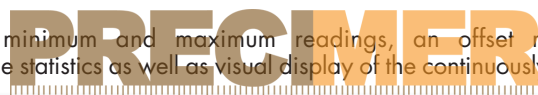
With this totally new SIDSP procedure, all necessary measuring signals are created and completely processed in the sensor itself. Only the completely processed digital readings are transferred to the base unit for display, statistical evaluation and data storage. Unlike the commonly used analogue procedures, the new SIDSP procedure excludes any error influences on the measuring data during transfer over the probe cable. The result is a measuring accuracy and constancy of readings, unmatched so far. Further innovations to increase measuring accuracy: the new process technology manufacture the reference balls used to results an increased reproducibility of over 0.5% and the calibration method enabling up to 5 calibration points. Calibration can be done over the complete range or over defined ranges.

Innovative menu control and data filing system

The new CG500 is very easy to operate. The menu-controlled user surface offers a user-friendly data filing system similar to common PC applications and a contextsensitive on-line help.

Data processing

The gauge features display of minimum and maximum readings, an offset mode (related to the set value), automatic storage of readings into the statistics as well as visual display of the continuously taken readings (real-time diagram).



TECHNICAL SPECIFICATIONS

Measuring principle	Magneto-static
Measuring rate	Up to 20 readings per second
Number of readings memorized in the statistics	1, 2, 5, 10, 20 readings/sec to choice
Measuring range FH4 probe	0mm ... 1.5mm with 1.5mm reference ball 0mm ... 2.5mm with 2.5mm reference ball 0mm ... 4.0mm with 4.0mm reference ball
Measuring range FH10 probe	0mm ... 2.5mm with 2.5mm reference ball 0mm ... 4.0mm with 4.0mm reference ball 0mm ... 10.0mm with 6.0mm reference ball
Low range sensitivity	0.1 µm
Measuring tolerance of FH4 probe	0mm ... 1.5mm: ± (5µm + 1 % of reading) 0mm ... 2.5mm: ± (5µm + 1 % of reading) 0mm ... 4.0mm: ± (10µm + 1 % of reading)
Measuring tolerance of FH 10 probe	0mm ... 2.5mm: ± (5µm + 1 % of reading) 0mm ... 4.0mm: ± (10µm + 1 % of reading) 0mm ... 10.0mm: ± (20µm + 1 % of reading)
Calibration modes	Zero, 2-point, 3-point, 4-point and 5-point calibration
Display	LCD 160x160 pixel with backlight
Measuring units	Metric (µm, mm), imperial (mils, inch)
Data memory	100,000 readings
Statistical evaluation	Numeric, trend and histogram
Languages	English, German, French
Interface	Cable, (RS-232 TTL) and/or combination port for foot switch, external contact, Infra-red (IrDA 1.1)
Operating temperature	-10°C ... +60°C
Storing temperature	-20°C ... +80°C
Dimensions	153mm x 89mm x 32mm (CG500) 17mm ø x 96mm (FH4 probe) 29.5mm ø x 125mm (FH10 probe)
Weight	310gr (batteries incl.) (CG500) 90gr (FH4 probe) 300gr (FH10 probe)
Plastics carrying case	365mm x 450mm x 140mm
Power supply	4 x AA (LR06), power unit (90V - 240V~ / 48Hz - 62Hz)

*1. Set of standards for 5 points calibration/FH4 probe and ball diameter 4 mm.

1 Precision standard in approx. 0.43mm, 0.75mm, 1.3mm, 2.2mm and 3.6mm.

*2. Set of standards for 5 points calibration/FH-10 probe and ball diameter 6 mm.

1 Precision standard in approx. 1.0mm, 1.7mm, 3.0mm, 5.2mm and 9.0mm.

STANDARD DELIVERY

- Instrument
- Batteries AA LR06(4 pcs)
- Manual available in German/English/French
- Short manual
- Carrying case
- Magnetic screwdriver

OPTIONAL ACCESSORIES

- Portable printer CG550
- Probe FH4 including operating stand
- Probe FH10 including operating stand
- Rubber protection case

STANDARD ACCESSORIES FOR PROBE FH4 *1

- Calibration cap: 0.3mm, 1mm, 3mm
- 3 zero calibration standards: ø1.5mm, ø2.5mm, ø4mm
- Set of 100 balls ø1.5mm
- Set of 100 balls ø2.5mm
- Set of 50 balls ø4mm

STANDARD ACCESSORIES FOR PROBE FH10 *2

- Calibration cap: 1mm, 3mm, 8mm
- 4 zero calibration standards: ø2.5mm, ø4mm, ø6mm, ø9mm
- Set of 100 balls ø2.5mm
- Set of 50 balls ø4mm
- Set of 25 balls ø6mm
- Set of 10 balls ø9mm

ORDER DETAILS

CG500 Wall thickness gauge for metals, glass and plastics

CG600

Ultrasonic Coating Thickness Gauge



PRECIMER

**CG600**

FOR PAINT, PLASTIC, ENAMEL AND OTHER INSULATING COATING

FEATURES

- Designed for non-destructive coating thickness measurement
- Paint, varnish, plastics and other insulation coatings applied on wood, plastics, glass, ceramics, etc. as well as for polymer layers on metal
- Total thickness as well as the individual layers in one measuring process
- Appropriate for use in laboratory
- Data output to printer CG300 or pc

TECHNICAL SPECIFICATIONS

Field of applications and measuring ranges:	Single layers: 10µm ... 500µm Multi-layers: maximum 500µm total coating thickness Wall thickness of metals: 0.1mm ... 8mm Wall thickness of plastics: 0.2mm ... 3mm
Resolution	1µm
Measuring uncertainty < 100µm	± (2µm + 3 %*) (*of reading)
Measuring uncertainty > 100µm	± (2µm + 2 %*) (*of reading)
Display	Alphanumeric with 4 large digits
Operation language	English
Standards	DIN, ISO, ASTM, BS
Statistics	n, x- , s, kvar, max, min, with time and date of print-out and reading
Data memory	Maximum 10,000 measuring values in maximum 500 batches
Limits	With optical and acoustic warning when limits are exceeded
Interface	RS-232
Ambient temperature	-15°C - 55°C
Power supply	2.4 V 2 x 1.2 V AA NiMH or NiCd (approx. 2,500 measurements)
Charger	90 V~ to 264 V (charging time: 4 hours)
Dimensions	Gauge 150mm x 82mm x 35mm
Weight	Approx. 150gr

STANDARD DELIVERY

- Gauge with probe
- Charger
- Rechargeable batteries
- Plastic case
- Coupling liquid
- Software
- Manual
- INNOVATEST® certificate

OPTIONAL ACCESSORIES

- Rubber protection case with mounting device
- Printer CG300
- Belt case set (two cases of different size for gauge and accessories)
- Carrying case for gauge
- Carrying case for gauge and printer

ORDER DETAILS

CG600 Ultrasonic coating thickness gauge for paint, plastic, enamel and other insulating coating

CG300 PRINTER



PRECIMER

CG700

Portable Coating Thickness Gauges





CG700
THICKNESS GAUGE

FEATURES

- Correct readings with interference free measurement with precise evaluation through SIDSP®
- Extended field of application through exchangeable sensors to cover different ranges up to 15 mm (600 mils) thickness (with CG740)
- High flexibility of use through versatile sensors (the CG740 sensor can be changed from built-in to external sensor on a lead)
- Automatic substrate identification with FN sensors accelerates measurements and helps avoiding operating errors
- Efficient temperature compensation eliminates errors caused by changes in temperature
- High precision characteristic curves achieved during the manufacturing process by calibrating up to 50 calibration points
- Large memory capacity for storing up to 100,000 readings in 10 and/or 100 batches
- Readings and statistical values can be called-up individually
- Large, easy-to-read backlit graphics display, with 180° rotatable display orientation
- Easy menu-guided operation, 25 menu languages are available
- Built-in IrDA port for infrared data transmission to printer or PC
- Future-proof through downloadable sensor and gauge software updates

TECHNICAL SPECIFICATIONS

Models available	Probes available for F (ferrous; on steel/iron), N (non-ferrous metals) and FN (combined), see list
Sensor model	Built-in (CG720), external (CG730) or changeable from built-in to external (CG740)
Number of data memories	10 (CG720/730) or 100 (CG740)
Number of storable	Maximum 10,000 readings (CG720/730); Maximum 100,000 readings in total (CG740)
Statistics	Number of readings, minimum, maximum, average, standard deviation, coefficient of variation, block statistics (norm-conforming /free configurable)
Calibration procedures	According to international norms and standards ISO, SSPC, „Swedish“, „Australian“
Calibration modes	Factory calibration, Zero calibration, 2-point and 3-point calibration, user adjustable offset value
Monitoring of limits	Visual and audible alarm to indicate limit deviations
Measuring units	µm, mm, cm; mils, inch, thou
Operating temperature	- 10°C ... 60°C; 14°F ... 140°F
Storing temperature	- 20°C ... 70°C; - 4 °F ... 158°F
Data port	IrDA 1.0 (infrared)
Power supply	2 Mignon/AA batteries
Norms and standards	DIN EN ISO 1461, 2064, 2178, 2360, 2808, 3882, 19840; ASTM B244, B499, D7091, E376; AS 3894.3, SS 1841 60, SSPC-PA 2
Dimensions	157mm x 75.5mm x 49mm
Weight built-in/external	Approx. 175gr (CG720) Approx. 210gr (CG730) Approx. 175gr / 230gr (CG740)

ORDER DETAILS

- CG720** Coating thickness gauge with built-in sensor
CG730 Coating thickness gauge with external sensor
CG740 Coating thickness gauge with changeable from
built-in to external sensor

STANDARD DELIVERY

- Plastic case with gauge
- Probe as chosen
- Calibration set with calibration standards and zero reference plate(s)
- Batteries AA (2 pcs)
- Manual
- INNOVATEST® certificate

OPTIONAL PROBES

- Probes (F or N or FN series selectable), see overview

OPTIONAL ACCESSORIES

- Measuring stand for F1.5/N0.7/FN1.5 sensors
- Rubber protection case
- Software basic edition data transfer
- IrDA adapter-USB for wireless data transfer



PRECIMER

TT-210

Coating Thickness Gauge



PRECIMER



TT-210
WITH INTEGRATED F/FN PROBE

FEATURES

- Easy to use
- Automatic substrate recognition
- Automatic calculation: Mean/Max/Min/No./S.Dev
- Upper-lower limit setting and sound alarm
- Data output RS-232 to printer TA-230 or PC
- Storage function for 500 measuring results
- Measurement modes: continuous/single
- Battery operated
- Automatic selection of measuring methods
- Upper-lower limit setting and sound alarm
- 2 stop ways: Manual/automatic

PRECIMER

TECHNICAL SPECIFICATIONS

Operating principle	Magnetic induction, eddy current
Measurement range	0µm to 1250µm, 0µm ~ 40µm
Measuring system	Selectable mm/inch
Minimum resolution	0.1µm (coating thickness <100µm)
Measuring accuracy	
Zero-point calibration	±(3%H+1µm)µm (F probe) ±(3%H+1.5µm)µm (N probe)
Two-point calibration	±(1%~3%H+1µm)µm (F probe) ±(1%~3%H+1.5µm)µm (N probe) (H= nominal value)
Sample	
Min. radius workpiece	Convexity 1.5 (F probe) convexity 3 (N probe)
Min. measuring area	ø7mm (F probe) ø5mm (N probe)
Min. sample thickness	0.5mm (F probe) 0.3mm (N probe)
Statistics TT-210	Average (MEAN), MAX., MIN., number of measurements (NO.), standard deviation (S.Dev)
Power supply	Battery AAA 1.5V (2 pcs)
Display	LCD with backlight
Dimensions	110mm x 50mm x 23mm
Weight	100gr

STANDARD DELIVERY

- Instrument
- Calibration foil set
- Substrate
- AAA 1.5V battery (2 pcs)
- Manual
- INNOVATEST® certificate
- Carrying case

OPTIONAL ACCESSORIES

- Printer TA-230 with cable
- Connecting cable
- Dataview software

ORDER DETAILS

TT-210 Coating thickness gauge with integrated F/FN probe

TA-230 MICRO PRINTER



PRECIMER

TT-211

Coating Thickness Gauge



PRECIMER



TT-211
WITH INTEGRATED F PROBE

FEATURES

- Easy to use
- Integrated probe F
- Auto off
- Single point measurement mode
- Easy calibration on zero point
- High speed data collection
- Mm/inch selectable
- Resolution selectable
- Battery operated

PRECIMER

TECHNICAL SPECIFICATIONS

Operating principle	Magnetic induction
Measurement range	0µm to 1250µm
Measuring system	Selectable mm/inch
Minimum resolution	Selectable 1µm, 5µm, 10µm
Measuring accuracy	
Zero-point calibration	$\pm(3\%H+10\mu\text{m})\mu\text{m}$
Sample	
Min. radius workpiece	Convexity 1.5
Min. measuring area	$\varnothing 7\text{mm}$
Min. sample thickness	0.5mm
Power supply	Battery AAA 1.5V (2 pcs)
Display	LCD
Dimensions	110mm x 50mm x 23mm
Weight	100gr

STANDARD DELIVERY

- Instrument
- Zero plate
- Substrate
- AAA 1.5V battery (2 pcs)
- Manual
- INNOVATEST® certificate
- Carrying case

ORDER DETAILS

TT-211 Coating thickness gauge with F probe

TA-230 MICRO PRINTER



PRECIMER

TT-220/TT-230

Coating Thickness Gauge





TT-220
WITH INTEGRATED F PROBE



TT-230
WITH INTEGRATED N PROBE

FEATURES

- Integrated probe: NO CABLES !
- With integrated F probe (TT-220) or integrated N probe (TT-230)
- Any non-magnetic coating on ferrous substrates (TT-220)
- Continuous or single measurement modes
- Statistics: Mean values/Max. values/Min. values/No./S.Dev
- Measurement readings stored
- Low battery indication
- Automatically switch off
- Real time or batch printing with TA-230 printer
- Rechargeable batteries

TECHNICAL SPECIFICATIONS

Probe type	F (TT-220) N (TT-230)
Operating principle	Magnetic induction (TT-220) Eddy current (TT-230)
Application	Any non-magnetic coating on ferrous substrates (TT-220) or insulating coatings on non-ferrous substrates (TT-230)
Measuring range	0µm - 1250µm
Minimum resolution	0.1µm (coating thickness <10µm)
Measuring accuracy	
Zero-point calibration	±(3%H+1µm)µm (TT-220) ±(3%H+1.5µm)µm (TT-230)
Two-point calibration	±(1%~3%H+1µm)µm (TT-220) ±(1%~3%H+1.5µm)µm (TT-230) (H= nominal value)
Sample	
Min. radius workpiece	Convexity 1.5 (TT-220) convexity 3 (TT-230)
Min. measuring area	ø7mm (TT-220) ø5mm (TT-230)
Min. sample thickness	0.5mm (TT-220) 0.3mm (TT-230)
Statistics	Average (MEAN), maximum values (MAX), minimum values(MIN), number of measurements (NO), standard deviation (S.DEV.)
Features	Real time printing or batch printing on TA-230 Continuous measurement (CONTINUE) and single measurement (SINGLE) Automatic switch off
Operating temperature	0°C - 40°C
Power supply	NiMH batteries, 3.6V
Dimensions	110mm x 53mm x 22mm
Weight	150gr

STANDARD DELIVERY

- Instrument
- Charger
- Calibration foil set
- Substrate
- Carrying case
- Pocket case
- INNOVATEST® certificate
- Manual

OPTIONAL ACCESSORIES

- Printer TA-230 with cable
- Certified calibration foils
- Connection cable

ORDER DETAILS

- TT-220** Coating thickness gauge with integrated F/ probe
TT-230 Coating thickness gauge with integrated FN probe

TA-230 MICRO PRINTER



PRECIMER