

CG500

Wall thickness gauge




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 context-sensitive 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 μ m
Measuring tolerance of FH4 probe	0mm ... 1.5mm: \pm (5 μ m + 1 % of reading) 0mm ... 2.5mm: \pm (5 μ m + 1 % of reading) 0mm ... 4.0mm: \pm (10 μ m + 1 % of reading)
Measuring tolerance of FH 10 probe	0mm ... 2.5mm: \pm (5 μ m + 1 % of reading) 0mm ... 4.0mm: \pm (10 μ m + 1 % of reading) 0mm ... 10.0mm: \pm (20 μ m + 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 (μ m, 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 \varnothing x 96mm (FH4 probe) 29.5mm \varnothing 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.

ORDER DETAILS

CG500 Wall thickness gauge for metals, glass and plastics

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: \varnothing 1.5mm, \varnothing 2.5mm, \varnothing 4mm
- Set of 100 balls \varnothing 1.5mm
- Set of 100 balls \varnothing 2.5mm
- Set of 50 balls \varnothing 4mm

STANDARD ACCESSORIES FOR PROBE FH10 *2

- Calibration cap: 1mm, 3mm, 8mm
- 4 zero calibration standards: \varnothing 2.5mm, \varnothing 4mm, \varnothing 6mm, \varnothing 9mm
- Set of 100 balls \varnothing 2.5mm
- Set of 50 balls \varnothing 4mm
- Set of 25 balls \varnothing 6mm
- Set of 10 balls \varnothing 9mm

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