Coating thickness gauge

CO-600 coating thickness gauge can be used to measure the thickness of non-magnetic film (e.g. paint, lacquer enamel, aluminum, chromium, rubber) on ferrous substrates (e.g. iron, steel) or the thickness of non-conducting film (lacquer enamel, paint, rubber, plastic etc.) on non-ferrous substrates (e.g. copper, aluminum, zinc, tin etc.).
In accordance with: ISO 2178/2360/2808, ISO 19840, ASTM B244/B499/D1186

Model Description

CO600 F A E 1

- 1: Measurement range: 1/2/3/4/5 corresponding to 0.5/1.6/5.0/14/25 and 0.5 mm (for integral type and integral with cable type)
- E: Economy (E), Basic (B), Standard (S), Top (T)
- A: Model A/B/C corresponding to integral, integral with cable and separate
- F: Ferrous (F), Non-Ferrous (NF) and Ferrous & Non-Ferrous (FNF)
- CO600: coating thickness model

Integral Type

Integral with Cable

Separate Type

Separate type

	Basic (B)	Standard (S)	Top (T)
Ferrous	CO600FCB	CO600FCS	CO600FCT
Non-ferrous	CO600NFCB	CO600NFCS	CO600NFCT

Packing list: main gauge, silicone case, operation manual, certificate, batteries, zero plate

Integral type and integral with cable type (IWCT)

	Economic (E)		Basic (B)		Standard (S)		Top (T)	
	Integral	IWCT*	Integral	IWCT*	Integral	IWCT*	Integral	IWCT*
Fe 0.5 mm	CO600FAE5	CO600FBE5	CO600FAB5	CO600FBB5	CO600FAS5	CO600FBS5	CO600FAT5	CO600FBT5
Fe 1.6 mm	CO600FAE1	CO600FBE1	CO600FAB1	CO600FBB1	CO600FAS1	CO600FBS1	CO600FAT1	CO600FBT1
Fe 5.0 mm	CO600FAE2	CO600FBE2	CO600FAB2	CO600FBB2	CO600FAS2	CO600FBS2	CO600FAT2	CO600FBT2
Fe 13 mm	------	------	------	CO600FBB3	------	CO600FBS3	-------	CO600FBT3
Non Fe 0.5 mm	CO600NFAE5	CO600NFBE5	CO600NFAB5	CO600NFBB5	CO600NFAS5	CO600NFBS5	CO600NFAT5	CO600NFBT5
Non Fe 1.6 mm	CO600NFAE1	CO600NFBE1	CO600NFAB1	CO600NFBB1	CO600NFAS1	CO600NFBS1	CO600NFAT1	CO600NFBT1
Non Fe 5.0mm	CO600NFAE2	CO600NFBE2	CO600NFAB2	CO600NFBB2	CO600NFAS2	CO600NFBS2	CO600NFAT2	CO600NFBT2

Packing list: main gauge, silicone case, operation manual, certificate, batteries, zero plate

- **Wifi data transfer**
- **2.2 inch TFT display**
- **Screen rotation**
- **Light sensor**
- **Mass data memory**
- **Limit setting**
- **Four units**
- **Dustproof and waterproof IP64**
- **Fast measurement**

Probe Design

- **Made of inorganic composite**
- **Highly wear-resistant**
- **Very long life time**

Technical data

Dimensions	70 X 150 X 32 mm
Weight	200 g
Screen	2.2 TFT
Battery	2 X AA batteries
Battery Life[1]	20 hours
Operating temp.	-10 to 50 °C
Accuracy[2]	±3%
Measuring speed	No less than 60 per minute

[1] Determined using energy-efficient setting and lithium batteries, other batteries or settings may differ.
[2] Accuracy depends on precision of the standard foil and operator's proficiency.

Configuration of Different Models

	Functions	Economic (E)	Basic (B)	Standard (S)	Top (T)
General	Low-power Alarm	x	x	x	x
	Language		x	x	x
	Light sensor	x	x	x	x
	Screen rotation		x	x	x
	Volume		x	x	x
	Brightness		x	x	x
	Upper & Lower limit		x	x	x
Calibration	2-point cal. smooth	x	x	x	x
	2-point cal. rough 1		x	x	x
	2-point cal. rough 2		x	x	x
	Zero calibration		x	x	x
	Factory calibration	x	x	x	x
Statistics	Onscreen statistics		x	x	x
	Measurement time		x	x	x
	Maximum		x	x	x
	Minimum		x	x	x
	Average		x	x	x
	Standard deviation		x	x	x
Batches	New batch			x	x
	Open batch			x	x
	View batch			x	x
	Clear batch			x	x
	Delete batch			x	x
	Exit batch			x	x
	Number of batch			10	100
	Total memory			100,000	1,000,000
Others	USB to PC	x	x	x	x
	Data to PC			x	x
	Software update	x	x	x	x
	WIFI			x	x

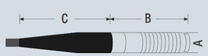
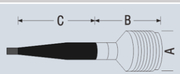
Probe

When the probe is not perfectly positioned vertically to the surface to be measured, which is often the case during practical applications, the material surrounding the inner core or the bobbin may be damaged by friction. This is the most common cause of malfunction or failure of a commercial thickness gauge.
In the CO600 thickness gauge, the bobbin in the probe is made of highly robust composite materials, which are highly wear-resistant.

Probe description

CO600 F 1 S
- S: Straight (S), Right-angle (R) and high-temperature (H) probe
- 1: Measurement range 1/2/3/4/5 corresponding to 1.6/5/15/26/0.5 mm
- F: Ferrous (F), Non-Ferrous (NF), Fe & Non-Ferrous (FNF)
- CO600: Probe

Dimension of Probes

Scheme	Part Number	Dimension / mm		
		A	B	C
	CO600F1S	9.0	40	50
	CO600F2S	9.0	40	50
	CO600F5S	9.0	40	50
	CO600F1H*	9.0	40	50
	CO600F2H*	9.0	40	50
	CO600N1S	9.0	40	50
	CO600N2S	9.0	40	50
	CO600N5S	9.0	40	50
	CO600N1H	9.0	40	50
	CO600N2H	9.0	40	50
	CO600F1R	9.0	60	50
	CO600F2R	9.0	60	50
	CO600N1R	9.0	60	50
	CO600N2R	9.0	60	50
	CO600F3S	9.0	40	50
	CO600F4S	9.0	60	50

Note: * 250 °C

Standard film for calibration

Part Number		Thickness	Part Number		Thickness
CO600-	S12.5	12.5 µm	CO600-	S1000	1000 µm
	S25	25 µm		S2000	2000 µm
	S50	50 µm		S300	3000 µm
	S125	125 µm		S4000	4000 µm
	S250	250 µm		S5000	5000 µm
	S500	500 µm		S7000	7000 µm
	S750	750 µm		S10000	10000 µm
CO600-	S-set	50/125/250/500/1000 µm			

Precision 1%; Dimension: 50 X 25 mm

Zero plate

Part Number	Description	Dimension
CO600-F-ZERO	Ferrous zero plate	50 X 50 X 1 mm
CO600-NF-ZERO	Non-ferrous zero plate	50 X 50 X 3 mm

Technical Data of Probes

Part Number	Measurement Range	Precision	Min. Space in Height	Min. Diameter (Curved Surface)	Min. Thickness of Substrate
CO600F1S	1600 µm	±1-3% or 2.5 µm	80 mm	5 mm	0.8 mm
CO600F2S	5000 µm	±1-3% or 20 µm	80 mm	5 mm	0.8 mm
CO600F5S	500 µm	±1-3% or 2.5 µm	80 mm	5 mm	0.8 mm
CO600F1H*	1600 µm	±1-3% or 2.5 µm	80 mm	5 mm	0.8 mm
CO600F2H*	5000 µm	±1-3% or 20 µm	80 mm	5 mm	0.8 mm
CO600N1S	1600 µm	±1-3% or 2.5 µm	80 mm	5 mm	0.3 mm
CO600N2S	5000 µm	±1-3% or 20 µm	80 mm	5 mm	0.3 mm
CO600N5S	500 µm	±1-3% or 2.5 µm	80 mm	5 mm	0.3 mm
CO600N1H	1600 µm	±1-3% or 2.5 µm	80 mm	5 mm	0.3 mm
CO600N2H	5000 µm	±1-3% or 20 µm	80 mm	5 mm	0.3 mm
CO600F1R	1600 µm	±1-3% or 2.5 µm	30 mm	5 mm	0.8 mm
CO600F2R	5000 µm	±1-3% or 20 µm	30 mm	5 mm	0.8 mm
CO600N1R	1600 µm	±1-3% or 2.5 µm	30 mm	5 mm	0.3 mm
CO600N2R	5000 µm	±1-3% or 20 µm	30 mm	5 mm	0.3 mm
CO600F3S	14 mm	±1-3% or 50 µm	80 mm	10 mm	1.0 mm
CO600F4S	25 mm	±1-3% or 100 µm	120 mm	30 mm	1.0 mm

Note: * 250 °C

HTechMT

HTech Messtechnik GmbH, Germany
www.htech-mt.de; info@htech-mt.de