

EXTECH® CG204 Coating Thickness Tester



EXTECH CG204 Coating Thickness Tester User Manual

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EXTECH®

EXTECH CG204 Coating Thickness Tester



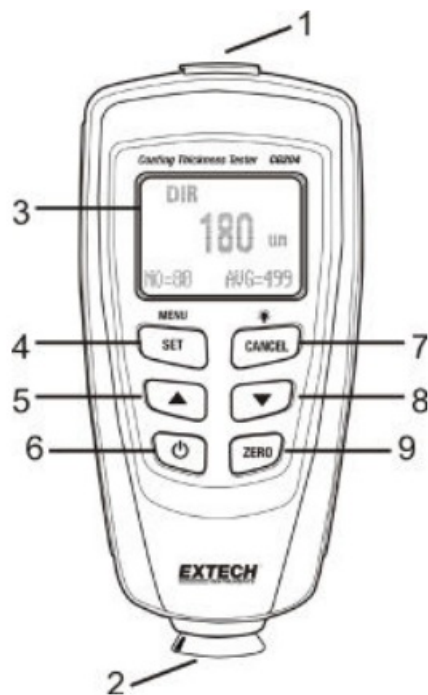
Introduction

- Congratulations on your purchase of the Extech CG204 Coating Thickness Tester. The CG204 is a portable meter designed for non-invasive coating thickness measurements.
- The meter uses two measurement methods: magnetic induction (for ferrous metal substrates) and eddy current (for non-ferrous metal substrates). Proper use and care of this meter will provide many years of reliable service.



Description

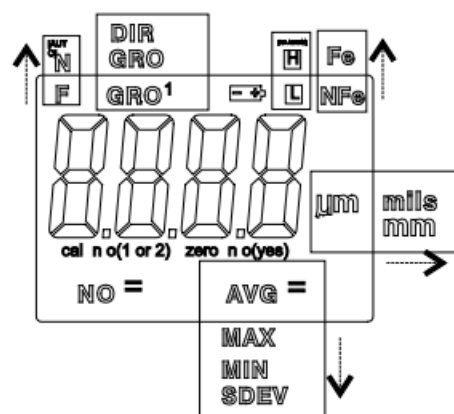
Meter Description

1. USB jack for PC interface
 2. Measurement probe
 3. Backlit LCD display
 4. SET /OK /YES /MENU /SELECT button
 5. UP /LEFT ARROW button
 6. Power ON/OFF button
 7. CANCEL /ESC /NO /BACK button (menu mode) and Backlight ON/OFF (normal mode)
 8. DOWN ARROW /RIGHT button
 9. ZERO calibration button
- **Note:** Battery compartment on rear of meter



Display Icon Description


- **NFe** Non-ferrous metals
- **Fe** Ferrous metals
- **AUTO** Automatic substrate recognition
- **F** or **N** Calibration icons
- **DIR** DIRECT mode
- **GRO1...4** GROUP Mode
- **μm** Micrometers unit of measure
- **mils** mils = millimeters * 2.54/100
- **mm** Millimeters unit of measure
- **AVG** Average reading
- **MIN** Minimum reading
- **MAX** Maximum reading
- **SDEV** Standard Deviation reading
- **NO** Number of data points
-  **Low** battery
-  **USB** Connection



- **Note:** The unit of measure icon flashes when in the CONTINUOUS mode of operation. The unit of measure icon is stable when in the SINGLE mode of operation.

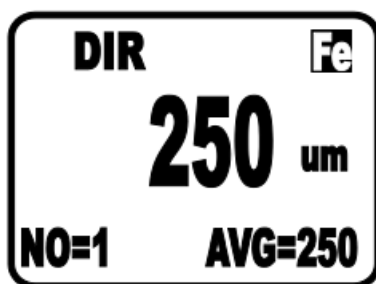
Quick Start Instructions

Meter Power

- Press the power button  to switch the meter ON. The display will switch ON. If the display does not switch ON, replace the batteries.

Measurements


- Use the supplied film references and zero reference metal substrates to learn how the meter operates before moving to a professional application.
 - The round metal substrate is the ferrous (magnetic) substrate and the rectangular-shaped metal substrate is the non-ferrous (non-magnetic) substrate. The meter automatically senses ferrous or non-ferrous substrates.
1. Place a reference film (250µm, for example) on the ground, ferrous substrate.
 2. Place the spring-loaded meter sensor against the reference film.
 3. In the single mode, the meter will emit an audible tone indicating that the measurement has been taken.
 4. In the continuous mode, the display will continually measure and update the display
 5. The LCD will show the reading (250µm) at the center of the display area.
 6. A typical display will also show the following.
- **NO** = 1 (reading number one) on the lower left of the LCD
 - **AVG** = 250µm (running average) on the lower right
 - **DIR** = DIR mode of operation on the upper left
 - **Fe** = Ferrous substrate on the upper right of the LCD
 - Experiment with the remaining reference films and the substrate before using the meter professionally.



Automatic Power OFF

- In order to conserve battery life, the meter will automatically turn off after approximately 3 minutes. To defeat this feature use the programming menu detailed in the next section (menu parameter AUTO POWER OFF under OPTIONS).

LCD Backlight Button

- The LCD is equipped with  backlighting for easier viewing, especially in dimly lit areas. Press the backlight button to turn the backlight on.
- Press again to turn the backlight off. To enable/disable the LCD backlighting, use the BACKLIGHT parameter under OPTIONS in the programming menu.

Factory Default Reset

To restore the meter to its original factory default settings:

1. Turn the meter OFF.
2. Press and hold the ZERO button while switching the meter ON.
3. When the meter powers up, the display will prompt for a YES or NO.
4. Press the SET button for YES or the CANCEL button for NO.
5. Note that all data in all memory locations will be erased, in addition to statistics, calibration values, and alarm limits.

Programming Menu

- The meter can be configured and calibrated through simple button presses in the programming menu. Press the MENU button to access the menu and refer to the menu 'tree' below.
- The menu uses UP/DOWN, SELECT, BACK, & ESC presses for navigation and selection. In the table below the factory default settings are in bold with an asterisk. Each parameter is explained in detail in the subsequent sections.

Top-level	Sublevel 1	Sublevel 2	Notes
STATISTICAL VIEW	AVG*		Average of a series of readings
	MIN		Lowest of a series of readings
	MAX		The highest of a series of readings
	NO		Number of sampled readings
	SDEV		The standard deviation of a series
	Measure mode	Single*	One reading at a time
		Continuous	Continuous measurements
	Working mode	Direct*	Readings are not stored in groups
		Group 1...4	Store readings in groups
	Probe used	Auto*	The meter automatically selects the mode
		Fe	Ferrous measurement mode
		No Fe	Non-ferrous measurement mode
		µm*	Micrometers

OPTIONS	Unit settings	mils	Mils = mm * 2.54 / 100
		mm	Millimeters
	Backlight	ON*	Enables backlight operation
		OFF	Disables backlight operation
	LCD Statistics	AVG*	Average of a series of readings
		MAX	Lowest of a series of readings
		MIN	The highest of a series of readings
		SDEV	The standard deviation of a series
	Auto Power OFF	Enable*	Allows auto power off to operate
		Disable	Defeats the auto power-off feature
LIMIT	Limit settings	High Limit	A high Alarm alerts the user when they reached
		Low Limit	A low Alarm alerts the user when they reached
	Delete Limits		Clear the alarm limit values
DELETE	Current Data		Delete current data
	All Data		Delete all stored data
	Group Data		Delete data stored data plus alarm and calibration data
MEASUREMENT VIEW			View stored data in all groups
CALIBRATION	Enable		Allow calibration access
	Disable		Lock out the calibration mode
	Delete Zero N		Clear the zero cal. data (non-ferrous)
	Delete Zero F		Clear the zero cal. data (ferrous)

NOTE: Disable the Auto Power OFF feature before lengthy programming to avoid inconvenient automatic power down while programming.

STATISTICAL VIEWS Menu

1. Press the MENU button to access the programming menu
2. Press SELECT to choose STATISTICAL VIEW
3. Use the UP and DOWN buttons to scroll through the AVERAGE, MINIMUM, MAXIMUM, NUMBER OF DATA, and SDEV (Standard Deviation) values for the stored readings.
4. NO DATA' will display if no readings are available for the meter to analyze. Stored readings will clear when the meter powers down unless the GROUP feature is used (refer to GROUP function explanation later in this section).

5. Press the BACK and then the ESC soft keys to return to the normal operating mode.

OPTIONS Menu

1. Press the MENU button to access the programming menu
2. Use the DOWN ARROW button to scroll down to OPTIONS
3. Press SELECT to choose OPTIONS
4. Use the UP and DOWN buttons to scroll to the MEASURE MODE, WORKING MODE, PROBE USED, UNIT SETTINGS, BACKLIGHT, LCD STATISTICS, AND AUTO POWER OFF parameters.
 - Use the SELECT soft key to select the desired parameter Each parameter is detailed below.

a. Measure Modes

- Select CONTINUOUS or SINGLE under MEASURE MODES in the OPTIONS Menu using the arrow buttons and the SELECT soft key.
- In the CONTINUOUS measurement mode, the meter displays a running average of readings as they are taken. Note that the audible measurement 'beep' is not active in this mode.
- In the SINGLE measurement mode measurements are taken one at a time. Single-mode measurement readings are accompanied by an audible tone.

b. Working Modes

- Select DIRECT or GROUP 1, 2, 3, or 4 under WORKING MODES in the OPTIONS Menu using the arrow buttons and the SELECT soft key.
- In DIRECT mode, individual readings are logged to memory. When power is switched off or if the meter is switched to GROUP mode, all DIRECT readings will be cleared. However, the statistical analysis data will remain.
- The statistical analysis utility can evaluate up to 80 readings. When the memory is filled, new readings will replace old readings. Lastly, this mode has its own calibration and alarm limit values.
- In GROUP mode each group memory can store a maximum of 80 readings and 5 statistical values.
- Calibration and alarm limit values can be individually set and stored for each group. When the memory is filled, measurements will continue to be taken but readings will no longer be logged (previously logged readings are not affected); in addition, statistical data will no longer update. If desired, the group data, statistical values, calibration data, and alarm limit values can be deleted using Delete under the programming menu.

c. Used Probe

- Select AUTO, Fe, or No Fe under USED PROBE in the OPTIONS Menu using the arrow buttons and the SELECT soft key.
- In the AUTO mode, the meter automatically activates the probe measurement method (ferrous or nonferrous) based on the metal substrate that is being measured.
- When the probe is placed on a magnetic substrate it will work in the magnetic induction mode. If the probe is

placed on a non-ferrous metal it will work in the eddy current mode.

- In the Ferrous (Fe) Mode, the Magnetic induction measurement mode is activated.
- In the Non-Ferrous (No Fe) Mode, the eddy current measurement mode is activated.

d. Units of measure selections

- Select mm, m, or mils under UNIT SETTING in the OPTIONS Menu using the arrow buttons and the SELECT soft-key (mm = millimeters; μm = micrometers; mils = $\text{mm} \times 2.54/100$)

e. Backlight

- Select ON or OFF under BACKLIGHT in the OPTIONS Menu using the arrow buttons and the SELECT softkey.
- If OFF is selected the LCD backlighting will be completely disabled. If ON is selected, the user can turn the light on or off using the backlight button (CANCEL button).

f. LCD Statistics

- Select AVERAGE, MINIMUM, MAXIMUM, or SDEV (Standard Deviation) under LCD STATISTICS in the OPTIONS Menu using the arrow buttons and the SELECT soft key.
- This selection determines which statistic is shown as default on the LCD display.

g. Auto Power OFF

- Select ENABLE or DISABLE under AUTO POWER OFF in the OPTIONS Menu using the arrow buttons and the SELECT soft key. When enabled, the meter automatically switches OFF after 3 minutes of inactivity.
- When disabled, the meter will only switch OFF with a button press or when the battery power is weak.

LIMIT Menu

High and Low Alarm Limits can be set When an Alarm Limit is reached the meter displays an Alarm Alert icon (H for High Alarm and L for Low Alarm).

1. Press the MENU button to access the programming menu
2. Use the DOWN ARROW button to scroll down to LIMIT and press SELECT
3. Press SELECT again to choose LIMIT SETTING
4. Press SELECT again to choose HIGH LIMIT
5. Use the ARROW BUTTONS to set a High Alarm value
6. Press OK to store the limit and press BACK to return to the menu
7. Perform the same steps for the LOW LIMIT
8. Use the DELETE LIMIT parameter to clear Alarm Limit values

DELETE Menu

- The DELETE menus allow for deleting current data, all data, and group data. The following parameters are available in the DELETE Menu.

- **Delete Current data:** Deletes the current reading and updates the statistics (AVG, MIN, MAX, etc.)
- **Delete All Data:** Delete all reading and statistical data.
- **Delete Group data:** This function duplicates the “Delete all data” function with additional, deletions of High alarm, Low alarm, and one- and two-point calibrations.

1. Press the MENU button to access the programming menu.
2. Use the DOWN ARROW button to scroll down to DELETE.
3. Press SELECT to open the DELETE function.
4. Use the ARROW keys to scroll to CURRENT, ALL, or GROUP.
5. Press SELECT again to choose CURRENT, ALL, or GROUP.
6. The meter will prompt with an ‘Are you sure?’ confirmation.
7. Press YES or NO as desired.

MEASUREMENT VIEW Menu

The Measurement View menu allows for scrolling through the readings in all of the groups.

1. Press the MENU button to access the programming menu.
2. Use the DOWN ARROW button to scroll down to MEASUREMENT VIEW.
3. Press SELECT to open the MEASUREMENT VIEW parameter.
4. Use the ARROW buttons to scroll through the stored readings.

CALIBRATION Menu

The Calibration menu allows the user to enable/disable the calibration utility. The Calibration menu also allows the user to delete Zero calibration data for both ferrous (Zero F) and non-ferrous (Zero N) modes.

1. Press the MENU button to access the programming menu.
2. Use the DOWN ARROW button to scroll down to CALIBRATION.
3. Press SELECT to open the CALIBRATION parameter.
4. Use the ARROW to scroll through the available parameters detailed below.
 - **ENABLE:** Enable the calibration mode
 - **DISABLE:** Disable the calibration mode.
 - **DELETE ZERO N:** Delete ZERO calibration data for non-ferrous probe
 - **DELETE ZERO F:** Delete ZERO calibration data for ferrous probe

Measurement Considerations

1. After calibration, measurements should meet the published accuracy specifications.
2. Strong magnetic fields can affect the readings.
3. When using the statistical analysis functions for obtaining a mean value, take several readings of the same measurement area. False readings or outliers can then be removed (deleted) using the programming menu.
4. The final reading is derived from a statistical calculation with regard to the meter’s published accuracy specifications.

Calibration

Calibration Types

Perform a zero calibration and a multi-point calibration before any critical measurements are taken. The calibration options are listed below. Read the description for each and select the best match for a given application.

1. Zero Point Calibration: Perform before each measurement session.
2. One Point Calibration: Use for high accuracy with repeated tests on a constant coating thickness.
3. Multi-Point Calibration: Use for high accuracy within a known range of coating thickness.
4. Calibration for shot-blasted surfaces.

Calibration Considerations

The calibration sample must correspond to the product sample in the following ways.

- Curvature radius
- Substrate material properties
- Substrate thickness
- Size of measurement area
- The point at which the calibration is made on the calibration sample must always be identical to the point of measurement on the product itself, especially in the case of corners and edges of small parts.
- To achieve the highest measurement accuracy, perform several calibrations in succession (for zero values and calibration film values).

Preparing for calibration

1. Clean the probe tip (grease, oil, metal scrap, and the slightest impurity will affect the measurement and distort readings).
2. Switch the meter ON (at a 4" [10cm] minimum distance from any metal).
3. Ready the supplied metal substrate samples and necessary films (supplied calibration reference films).
4. Set the meter to:
 - **a. DIR:** (MENU-OPTIONS-Working Mode-Direct)
 - **b. CONTINUOUS:** (MENU-OPTIONS-Measure Mode-Single mode [flashing units indicator])
 - **c. MAX:** (MENU-OPTIONS-LCD Statistic-Maximum).
 - **d. um:** (MENU-OPTIONS-Unit Settings-um).
5. The meter is now ready for calibration.
6. You should perform a Zero calibration prior to a thickness calibration.

Zero calibration

1. Clean the tip of the meter before calibration.
2. Place the meter on an uncoated section of the material to be measured or on the reference substrate provided.
 - Use either the Ferrous or Non-Ferrous reference as required by the measurement application. If the non-

ferrous reference substrate is used, place it on a non-ferrous surface.

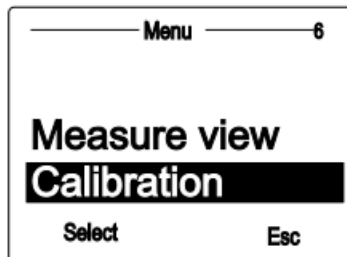
3. Place the probe on the uncoated substrate and watch the LCD readings.
4. When the readings appear stable, lift the meter off the substrate
5. Press and Hold the Zero button for 2 seconds (2 beeps).
6. Repeat this procedure at least 5 times to create an accurate mean value.
7. The meter is now ready for thickness calibration or measurements.



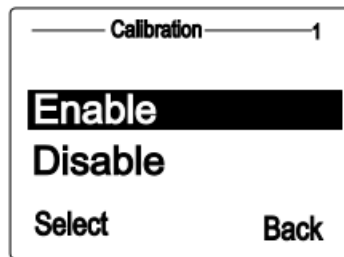
Calibration

The meter's accuracy can be enhanced by performing a calibration using the reference films supplied.

1. Perform a zero calibration as stated above
2. Perform a one-point calibration using a reference film.
 - **a.** Press "MENU" and then scroll up "▲" to "Calibration".
 - **b.** Press "Select" and highlight the "Enable" function and then press "Select".
 - **c.** Press "Esc" and the meter will enter the calibration mode.
 - **d.** Place one of the reference films on the substrate used to Zero the meter.
 - **e.** Place the meter on the calibration reference film and wait for the meter to beep.



- **f.** Lift the meter off the substrate.
 - **g.** Press the Up or Down arrows to set the displayed value to the reference film value.
 - **h.** Place the meter back down on the reference film and wait for the meter to beep.
 - **i.** Lift the meter off the substrate.
 - **j.** Press the Up or Down arrows to set the displayed value to the reference film value.
 - **k.** Repeat up to 5 times to establish a mean average reading.
 - **l.** Turn the meter OFF to exit Calibration mode and save the calibration data.
3. The meter is now calibrated to the base material and thickness film used.
 4. For a Two-point calibration refer to that section below.

**Notes:**

1. During calibration, the ▲ and ▼ buttons adjust the internal calibration factors with high resolution.
The display resolution may be such that it may take up to 10 presses to see a 1-digit change on the display.
2. Calibration data is stored in memory; it is not erased when the meter is turned OFF.

Two-point calibration

This method requires the use of two films. The thicker film should be, if possible, 1.5 times as thick as the thinner one. For best results, the expected thickness should be between the two calibration values.

This method is especially suitable for taking high-precision readings. It is advisable to take a mean several times. This considerably reduces the effect of scattering which occurs during calibration of the upper and lower values.

1. Perform a Zero-point calibration (previously described)
2. Enable Calibration mode in the Options Programming Menu.
3. Perform a One-point calibration (as previously described) on the thinner calibration film reference and make 5 measurements.
4. Turn off the meter to save the measured values.
5. Turn on the meter and Enable calibration mode.
6. Perform a One-point calibration using a thicker calibration film and make 5 measurements.
7. Turn off the meter to save the measured values.
8. Turn on the meter, it is now ready to make measurements.

Calibration Notes:

1. The thickness of the calibration films should be roughly equivalent to the estimated coating thickness to be measured.
2. Calibration can be performed as often as necessary. Old calibration data will be overwritten but the ZERO calibration data remains in memory until another zero-point calibration is made.

Calibrating for Shot-blasted surfaces

The physical nature of shot-blasted surfaces results in higher-than-normal coating thickness readings. The mean thickness over the peaks can be determined as follows:

1. The meter should be calibrated according to the calibration instructions. Use a smooth calibration sample with the same curvature radius and the same substrate as the device to be tested.
2. Take approx. 10 readings on the uncoated, shot-blasted sample to produce the mean value X_o .
3. Take an additional 10 readings on the coated, shot-blasted test sample to produce the mean value X_m

4. The difference between the two mean values is the mean coating thickness X_{eff} over the peaks. The greater standard deviation 'S' of the two values X_m and X_o should also be taken into consideration: $X_{eff} = (X_m - X_o) \pm S$

NOTE: For coatings thicker than 300 μm , the influence of roughness generally is of no importance and therefore it is not necessary to apply the above calibration methods.

Measuring metallic coatings

This meter can measure non-magnetic metal coatings (Zinc) on a magnetic (ferrous) substance base, and non-metal coatings on a metal base (ferrous or non-ferrous).

Statistical Analysis Considerations

- The meter calculates statistics from a maximum of 80 readings (For Group 1 through Group 4, a maximum of 400 readings can be stored). Note that readings cannot be stored when in DIRECT mode.
- However, statistics on these readings can still be calculated. When the meter is powered off or if the working mode is changed (in the programming menu), the DIRECT mode statistics will be lost.

The following statistical values can be calculated:

- **NO:** Number of readings
- **AVG:** Average value
- **Sdev. :** Standard deviation (square root of a data set's variance)
- **MAX:** Maximum reading
- **MIN:** Minimum reading

Statistical Terms

$\bar{x} = \sum x / n$ The average value (\bar{x}) is the sum of readings divided by the number of readings.

Standard Deviation (Sdev)

- The sample standard deviation is a statistic that measures how the sample value is distributed around the sample mean. The standard deviation of a set of numbers is the root mean square of the variance S^2 . The variance of a list is the square of the standard deviation of the list, that is, the average of the squares of the deviations of the numbers in the list from their mean divided by the (number of readings – 1)
- **Variance:** $S^2 = \sum (x - \bar{x})^2 / (n - 1)$
- **Standard deviation:** $S = \sqrt{S^2}$

NOTE:

- Use the DELETE parameter from the programming menu immediately after an outlier or erratic reading has

been taken. Refer to the Delete function in Programming Menu.

Storage Capacity Overflow

- In GROUP mode, if the storage capacity is exceeded, statistics will not be updated, although measurements can still be made. If the memory is full, subsequent readings will not be included in the statistics.
- The meter's display will show "FULL" (in the SINGLE measurement mode).
- In DIRECT mode, when the memory is full, the newest reading will replace the oldest reading and the statistics will be updated.

PC Software

- This meter has the capability to connect to and communicate with a PC.
- Check the software download page of the website www.extech.com/software for the latest version of the PC software and its operating system compatibility.
- Download and unzip the software. Run ExtechInstaller.exe and then refer to the instructions provided in the HELP Utility within the software program.

Error Messages

- The following error messages will appear on the meter's LCD if a problem arises.
- **Err1:** Eddy current probe error
- **Err2:** Magnetic induction probe error
- **Err3:** Eddy current and Magnetic induction errors
- **Err4, 5, 6:** Unused error displays
- **Err7:** Thickness error
- Please contact Extech Instruments if a problem exists.

Maintenance

Cleaning and Storage

- Periodically wipe the meter housing with a damp cloth and mild detergent; do not use abrasive or solvents.
- If the meter is not to be used for 60 days or more, remove the batteries and store them separately.

Battery Replacement/Installation instructions

1. Remove the Phillips head screw that secures the rear battery door
2. Open the battery compartment
3. Replace/install the two 1.5V 'AAA' batteries
4. Secure the battery compartment

Specifications

Sensor probe	Ferrous	Non-Ferrous
Measurement principle	Magnetic induction	Eddy current principle
Measuring range of coating thickness	0~1250µm 0~49.21mils	0~1250µm 0~49.21mils
Accuracy1 (% of reading)	0~850µm: ±(3% + 1µm) 850µm ~1250µm: (±5%) 0~33.46mils: ±(3% + 0.039mils) 3 3.46mils ~49.21mils: (±5%)	0~850µm: ±(3% + 1.5µm) 850µm ~1250µm: (±5%) 0~33.46mils: ±(3% + 0.059mils) 33.46mils ~49.21mils: (±5%)
Resolution	0~50µm: (0.1µm) 50µm ~850µm: (1µm) 850µm ~1250µm: (10µm) 0~1.968 mils: (0.001mils) 1.968mils~33.46 mils: (0.01mils) 33.46mils~49.21mils: (0.1mils)	0~50µm: (0.1µm) 50µm ~850µm: (1µm) 850µm ~1250µm: (10µm) 0~1.968mils: (0 .001mils) 1.968mils~33.46mils: (0.01mils) 33.46mils~49.21mils: (0.1mils)
Min. curvature radius of the su bstrate	1.5mm (59.06mils)	3mm (118.11mils)
Diameter of Min. area of subst rate	7mm (275.6mils)	5mm (196.9mils)
The basic critical thickness of the substrate	0.5mm (19.69mils)	0.3mm (11.81mils)
Industrial standards	Conforms to GB/T 4956-1985, GB/T 4957-1985, JB/T 8393-1996, JJG 889-95, and JJG 818-93	
Operating Temperature	32°F~104°F (0°C~40°C)	
Operating Relative Humidity (R.H.)	20%~90% Relative Humidity	
Dimensions	4.3 x 2.0 x 1.0" (110 x 50 x 23mm)	
Weight	3.9 oz. (100g)	
The accuracy statement applies on a flat surface, with a zero and a calibration performed near the thickness of the film to be measured, with an identical base metal, and with the meter stabilized at ambient temperature. The accuracy of the reference films or any reference standards should be added to the measurement results.		

Two-year Warranty

- Teledyne FLIR warrants this Extech brand instrument to be free of defects in parts and workmanship for two years from the date of shipment (a six-month limited warranty applies to sensors and cables).
- To view the full warranty text please visit: <http://www.extech.com/support/warranties>.


Calibration and Repair Services

- Teledyne FLIR offers calibration and repair services for the Extech brand products we sell. We offer NIST traceable calibration for most of our products. Contact us for information on calibration and repair availability, refer to the contact information below.
- Annual calibrations should be performed to verify meter performance and accuracy. Product specifications are subject to change without notice.
- Please visit our website for the most up-to-date product information: www.extech.com.

Contact Customer Support

- Customer Support Telephone List: <https://support.flir.com/contact>
- Calibration, Repair, and Returns: repair@extech.com
- Technical Support: <https://support.flir.com>
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Documents / Resources

 <p>EXTECH USER MANUAL Coating Thickness Tester Model CG204</p>	<p>EXTECH CG204 Coating Thickness Tester [pdf] User Manual CG204 Coating Thickness Tester, CG204, Coating Thickness Tester, Thickness Tester, Tester</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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