INSIZE

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**ISR-C200
ROUGHNESS TESTER
OPERATION MANUAL**

V0

INSIZE

Structure

confirm / enter menu

moving between menu items

OLED display

switch on / start measurement

bluetooth connection status LED indicator

probe

Main screen

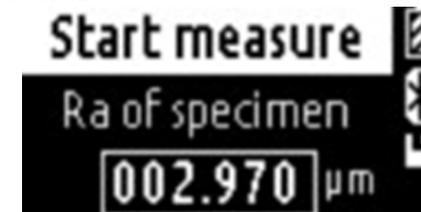In the figure you can see a typical instrument screen after the switch-on sequence:

Much of the screen is used, depending on the level we're on, by the measurement parameters list or by the menu items or by options list.

To the right side there are some system icons that are always displayed in every screen: respectively from the top there is the battery level icon, the bluetooth status icon and the profile save mode icon.

If in the screen there is a vertical scrolling menu list, to the lower right side the related scrolling indicator, represented by two little overlapped triangles, is displayed: if the upper triangle becomes grey it means that we are at the beginning of the list, whereas if the lower triangle becomes grey it means that we reached the end of the list.

How to

◆ Calibrate the instrument:
To go to the calibration screen press ✓ to enter main menu, then press repeatedly ≫ until you reach the "Calibration" item and finally press ✓ to confirm.

You have to perform the following steps:
a. Insert the nominal value: move with ≫ to the box with numerical value, inside the box move to the desired digit with ≫ then press ✓ until you reach the desired value.
b. Start measure: after setting the nominal value press ≫ to move to "start measure" item then press ✓ to confirm.

◆ Select parameters and related tolerances:

To go to the parameters selection screen press ✅ to enter main menu, then press repeatedly ≫ until you reach "Parameters" item and finally press ✅ to confirm. We'll get the following screen:

Parameters selected for being displayed are those marked by 👁 icon, whereas those not selected are marked by the 🚫 icon.

To go to the parameters options setting screen move to the desired parameter with ≫ then confirm by pressing ✅ . We'll get the following screen:
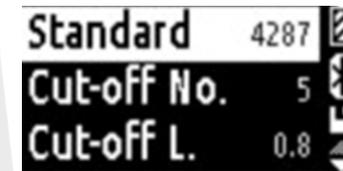

To enable / disable the parameter move to the 👁 icon with ≫ then press ✅ .

To enable / disable the tolerance check move with ≫ to the little box on the left marked by the label "Tol" then press ✅ .
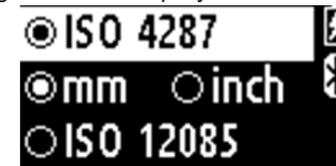
To set the upper and lower tolerance limits values move with ≫ to reach the numeric boxes, then keep moving with ≫ inside them to reach the desired position of the digit whose value you want to change and finally press ✅ until you reach the desired value. Press then ▶ to return to main menu.

◆ Perform the measurement:

To verify that all the measurement parameters are correct go from main menu through ≫ to the relative setting screen by selecting the item "Set measure" and pressing ✅ to confirm. We'll get the following screen:

❶ Measurement standard selection.
move with ≫ to the item "Standard" then press ✅ to confirm. The following screen is displayed:

move to the desired item with ≫ then confirm by pressing ✅ . If you select the standard ISO 4287 it is also possible to select the measurement unit; also in this case you move to the item to be activated with ≫ and confirm by pressing ✅ . Press then ▶ to return to the setting screen.

❷ Cut-off length selection (standard ISO 4287).
Move with ≫ to the "Cut-off L". item then press ✅ to confirm. The following screen is displayed:
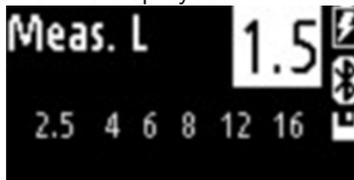

Move to the desired item with ≫ then confirm by pressing ✅ . The currently selected value is represented with a larger size than the other values. Press then ▶ to return to setting screen.

③ Cut-off number selection (standard ISO 4287).
Move with ≫ to the item "Cut-off No." then press ✓ to confirm.
The following screen is displayed:

Move to the desired item with ≫ then confirm by pressing ✓.
The currently selected value is represented with a larger size
than the other values. Press then ▷ to return to setting screen.

④ Measurement length selection (standard ISO 12085).
Move with ≫ to the item "Meas L." then press ✓ to confirm.
The following screen is displayed:

Move to the desired item with ≫ then confirm by pressing ✓.
The currently selected value is represented with a larger size
than the other values. Press then ▷ to return to setting screen.

⑤ Start measure delay selection.
Move with ≫ o the item "Delay" then press ✓ to confirm.
The following screen is displayed:

Move to the desired item with ≫ then confirm by pressing ✓.
The currently selected value is indicated by the cursor position
at the bottom . Press then ▷ to return to setting screen.

⑥ End of measurement automatic return selection.
Move with ≫ to the item "Return" then press ✓ to confirm.
The following screen is displayed:

Move to the desired item with ≫ then confirm by pressing ✓.
Press then ▷ to return to main menu.

To verify the correct positioning of the pickup tip move from main menu
with ≫ to the appropriate control screen by selecting "Position" and
pressing ✓ to confirm. We'll get the following screen:

Press ▷ to start the measurement.
Press ✓ to return to setting screen.
When all the operations are completed press ▷ to return to starting
screen then press again ▷ to start the measurement.

◆ Display measurement results:
the measure results screen is automatically displayed at the end of the
measure. If the measure results have been already loaded in memory
and we are in a different screen, press repeatedly on ▷ until you reach
the measure results screen.
If only one parameter has been enabled, the following screen will be
displayed:

If two parameters have been enabled, the following screen will be displayed:

If three or more parameters have been enabled, the following screen will be displayed:

◆ Change language:
To go to the language selection screen press ✓ to enter main menu, then press repeatedly ≫ until you reach the item "System" then press ✓ to confirm. We'll get the following screen:

To go to the language selection screen press ≫ until you reach the item "Language" then press ✓ to confirm. We'll get the following screen:

press repeatedly ≫ until you reach the desired language then press ✓ to confirm. At the end press ▷ twice to return to main menu.

◆ Enable - disable bluetooth:
To go the bluetooth connection activation screen press ✓ to enter main menu, then press repeatedly ≫ until you reach the item "System" then press ✓ to confirm. We'll get the following screen:

To enable/disable bluetooth press ≫ until you reach the item Bluetooth then press ✓ to confirm.
Bluetooth is active when the little box alongside the writing is filled with a cross, vice versa the box will be empty.

◆ Transverse measurement:
Disassemble the six small screws of the base, remove the bottom plate and the probe protection cover, rotate the probe 90° and install it, and then the transverse measurement can be carried out.

◆ Software connection:
The measurement can be performed by connecting computer software or bluetooth connection to mobile phone software (Android system only) via wired or bluetooth.