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ISQ-RA600
LARGE DIAMETER GAGE
OPERATION MANUAL

V0

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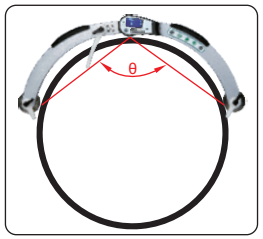
5 Screen rotation:
Press up key to rotate the screen in initial interface.

6 Angle display model:
Select the menu as SETTINGS-MEASUREMENTS-MEASURE TYPE, use up/down keys to select the angle, press 17 or 21 key to confirm.



7 Maximum and minimum measuring models:
Press down key in initial interface to switch the Maximum and minimum measuring models, maximum model is used to measure internal diameter and minimum model is used to measure external diameter.
When screen show "OVER RANGE", it means the diameter is not in the measuring range.

8 Accuracy in different diameters:

Diameter	Accuracy
500mm	±0.018mm
1000mm	±0.043mm
1500mm	±0.085mm
2000mm	±0.143mm
2500mm	±0.218mm
3000mm	±0.310mm
4000mm	±0.543mm
5000mm	±0.843mm
6000mm	±1.210mm

Note:
For getting accurate result, please take several time to calculate the average value.

Battery

A small icon on the screen shows the battery charge status.

full charge

half charge

low battery, need to be charged

Attention

- It is strongly recommended to hold the instrument without pressing the arms against the object to be measured.
- Please save the data to computer in time.
- Take care the product during using, don't make it crash or drop.
- Put the instrument in the box when don't use, keep anti-rust for metal part.

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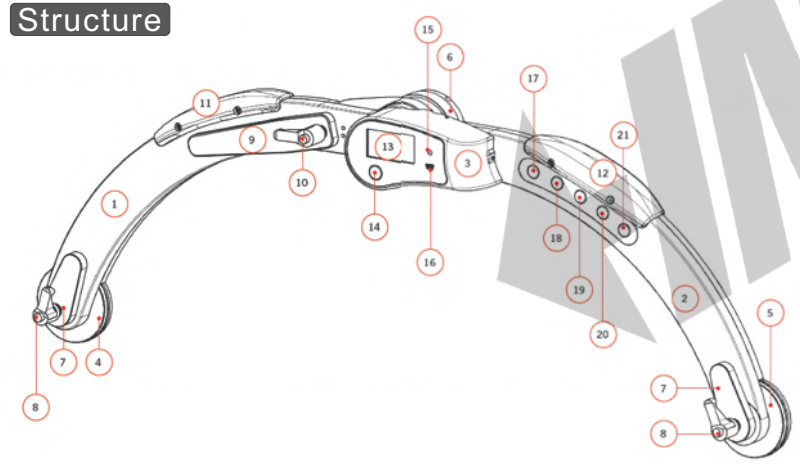
Introduction

ISQ-RA600 is a measuring instrument which detects diameter by touch three points on the cylinder. The product is easy to operate, make quickly measuring, always be used to measure big cylinder workpiece.

Features

- To measure large external or internal diameters
- Automatic judgment and display external or internal diameter
- Titanium arm, light in weight
- Backlight LCD display, can rotate 180 ° for easy reading
- Memory of 12 readings and average calculation
- With minimum and maximum measurement mode
- Angle can be displayed

Structure

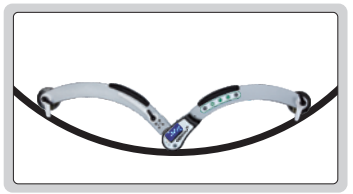


1&2. arms in titanium 3. display unit 4&5. support wheels 6. Central support wheel 7&9. Lateral mechanical stop 8&10. Locking knob 11&12. handle 13. LCD screen 14. ON/OFF button 15. Bicolor led 16. Mini-USB port (for data output and charge) 17. “Save/Enter” button 18. MENU button 19. up/MIN/MAX button 20. down/display rotation 21. “Save/Enter” button

Operation

1. Power on/off: press the ON/OFF button near the LCD display.
2. **Zero setting: The zero setting procedure of the instrument must be performed every time it is turned on.**
   - The operator holding the instrument with the measuring arms joined.
   - Turn the instrument on by pressing the green button. After a few seconds will be displayed the following text: OPEN FROM CLOSED ARMS.
   - The operator then extends the instrument arms until the acoustic signal "beep" confirm the zero setting achieved.
3. Measuring:

external diameter measuring



internal diameter measuring

After the product has been turned on, the display shows the serial number; meanwhile zero-setting has been performed (see above), the instrument is ready for measurements and the display will show the result as following:
EXTERNAL
Ø936,38mm
M X
where "X" indicates the number of readings that have been saved.

4. Save the result and see the memory:
   - Press 17 or 21 key to save the result after measuring.
   - **Press MENU key and use up/down keys to select the memory, press 17 or 21 key to confirm.**
     CLEAR MEMORY: delete all the data
     SAVED DATA: browse the saved data
     DATA AVERAGE: the average value of saved data
     EXIT: quit the current menu