

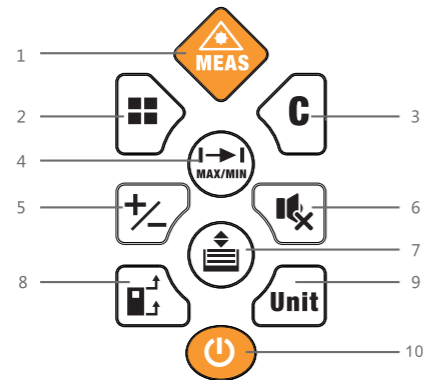
# TOLSEN

## 35176 [INDUSTRIAL] LASER DISTANCE METER

### INSTRUCTION MANUAL

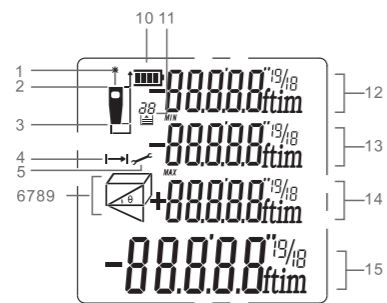


#### Button functions



1. Measure button
2. Area / Volume/Pythagorean button
3. Return/Clear button
4. Continuous measurement button
5. Add(+)Subtract(-) button
6. Beep button
7. Historical memory button
8. Measuring reference button
9. Unit button
10. ON/OFF button

#### LCD Display



1. Laser on
2. Reference point (front)
3. Reference point (rear)
4. Distance /Continuous measurement
5. Setting
- 6, 7, 8, 9. measuring mode indication
10. Battery status
11. Historical memory
12. Value 1
13. Value 2 / Min value
14. Value 3 / Max value
15. Summary line / latest value / calculation result

#### INITIAL OPERATING AND SETTING

##### Power On / Off

###### Power on/off (manually)

Long press to switch on/off the device.

###### Power off (automatically)

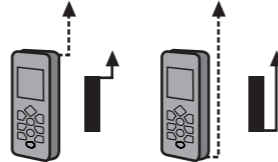
The instrument switches off automatically after three minutes of inactivity.

##### Return / Clear

When measuring, press to undo the last action or clear measured value.

#### Adjusting Measuring Reference

Press to switch reference point between the front and the rear of the instrument. There is a beep warning tone when reference point is changed.



The default reference setting is from the rear of the instrument. The reference point will be set to default every time when it's powered off, i.e. the measuring reference point is from the rear of the instrument every time when it's powered on.

##### Unit Change

Press to change distance unit between m, ft, in and ft+in.

##### Beep On/Off

Press to switch on/off the beep.

#### DISTANCE MEASUREMENT

##### Single Distance Measurement

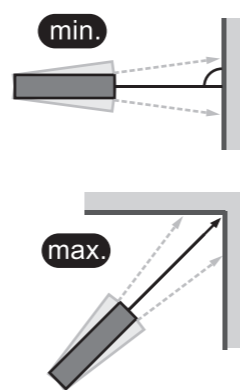
Press to activate the laser.

Press again to trigger the distance measurement. The measured value is displayed immediately.

##### Continuous Measurement(Min / Max)

Press key to activate continuous measurement. The maximum and minimum distances measured are shown in the display. The last measured value is displayed in the summary line. This function will be stopped automatically after 5 minutes of inactivity.

User can press or to stop the function



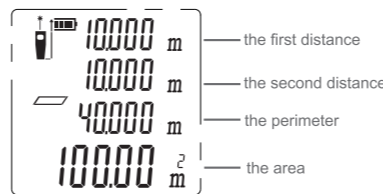
#### FUNCTIONS

##### Area Measurement

Press once, the symbol appears in function filed of display.

Press to take the first distance measurement (e.g. Length).

Press again to take the second distance measurement (e.g. width). The results of length, width, perimeter and area are displayed in the screen.

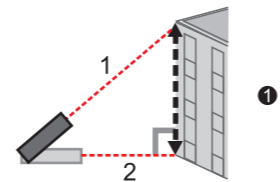


##### Volume Measurement

Press twice, the symbol appears in the function field on the display.

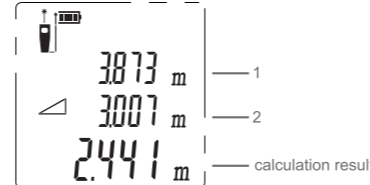
Press to take the first distance measurement (e.g. Length). Next get the width, then height, the result of length, width, height and volume is displayed orderly.

##### Pythagorean Method-Tow points

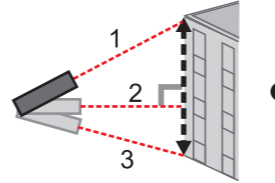


Refer to figure 1. Press 3 times to activate

the function, the symbol appears in the function field on the display. Take measurement with the 2 points shown on below figure in numeric sequence, the height of the object will be calculated automatically and displayed on screen.

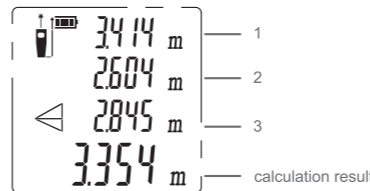


##### Pythagorean Method-Three points



Refer to figure 2. Press 4 times to

activate the function, the symbol appears in the function field on the display. Take measurement with the 3 points shown on below figure in numeric sequence, the height is calculated and displayed on the summary line. Press to delete any measured length and then press to re-measure.



##### Addition / Subtraction

Addition : short press

Subtraction: long press

Take a measurement, then press , addition / subtraction symbol will appear on

display, then press button to take the second easurement, the second value will be automatically added to/subtracted from the first one.

Note: This process can be repeated as required.

##### Historical memory

Press to view historical memory, the last 20 measured value will be displayed in reversed order.

Press to quit historical value viewing.

#### TROUBLE SHOOTING

All errors or failures will be shown as codes. The following table explains the meaning of codes and solutions.

Code	Cause	Corrective Measure
204	Calculation error	Refer to user manual, repeat the procedures.
208	Excessive current	Please contact your distributor
220	Battery low	Replace new batteries.
252	Temperature too high	Let device cool down to operating temperature at 0°C-40°C.
253	Temperature too low	Warm up the device to operating temperature.
255	Received signal too weak or measurement time too long	Use target plate or change a good reflective surface.
256	Received signal too strong	Target too reflective, use target plate or do not aim at strong light objective.
261	Outside of the range of measurement	Select the measurement distance within the range of measurement.

Code	Cause	Corrective Measure
500	Hardware error	Switch on/off the device several times. If the symbol still appears, please contact your dealer for assistance.

#### SPECIFICATION

Specification	S2 series
The maximum measuring range <sup>1</sup>	0.2-60m / 0.65-197ft
Measuring accuracy <sup>2</sup>	±(2.0mm+5×10 <sup>-5</sup> D)
Measuring units	m / in / ft / ft+in
Laser class	Class 2
Laser type	630- 670nm, < 1mW
Area , Volume Measurement	√
Indirect Pythagorean theorem	√
Addition and subtraction	√
Continuous measurement	√
Min. / max. value	√
Beeper	√
4-line display with backlight	√
Single distance measurement	√
Historical memory	20 sets
Button	Soft rubber buttons
Operating temperature	0°C-40°C
Storage temperature	-10°C-60°C
Battery life	5,000 measurement times
Battery type	AAA 2 x 1.5V
Auto laser off	30 seconds
Auto instrument off	180 seconds
Dimensions (mm)	120*48.5*28.5
Weight (g)	120

1. The maximum measuring range is determined by the version of laser distance meter. Exact measuring range is shown on the gift box. During daylight or if the target has poor reflection properties, please use target plate.

2. In favorable conditions (good target surface properties, room temperature),the device can reach up to rated measuring range. In unfavorable conditions, such as intense sunshine, poorly reflecting target surface (black surface) or high temperature variations, the deviation over 10m of distance may increase .

#### CONTACT US

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#### CLIP ASSEMBLY DRAWING

hold down A and simultaneously pull out B

