

**WORKZONE®**

## **DIGITAL CALIPER**

**Manual**



**DC-1**

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Congratulations on the purchase of this quality product.

There is a 3 year guarantee period that commences on the date of purchase.

Please retain the receipt as proof of purchase. Faulty digital calipers can be sent freight collect to the service address stated below during the guarantee period. You will then be sent a new or a repaired digital caliper free of charge. After expiry of the guarantee period you also have the opportunity to send the defective device to the address stated below for repair. Repairs arising after expiry of the guarantee are subject to postal charges and costs. Your legal rights are not restricted by this guarantee. Should you have any questions, simply contact the service address stated on the last page. The guarantee presupposes correct handling and care. Please observe the notes on use for this.

We cannot accept a guarantee for damages caused by overloading, the use of incorrect accessories or repairs by an unauthorised workshop.

# General information and safety notes

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## Technical Data

Resolution:	0.01 mm
Power source:	1.5 V, LR 44 1 button battery
Measuring speed:	$\leq 1.5$ m/s
Operating temperature:	0 ~ + 40° C
Storage temperature:	-10° C ~ + 60° C
Relative humidity:	< 80 %



## Important information:

Risk of injury: the measuring edges are sharp and pointed! Therefore, only ever take hold of the measuring device by the handles. Do not allow children to play with the measuring device. They can injure themselves on the sharp measuring edges or swallow the battery or the battery compartment cover. Measure very carefully on sensitive surfaces to avoid scratch marks.

The digital slide gauge is designed for use in a private household. It is not suitable for industrial use in workshops, etc.

## Information on batteries

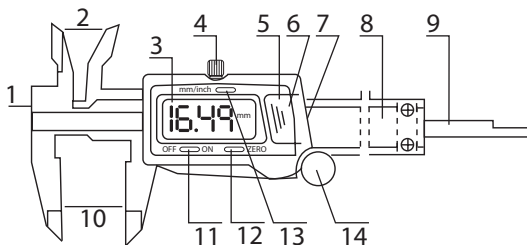
- Never try to recharge batteries that are not rechargeable. Explosion hazard!
- Keep batteries away from children, do not throw them into fire, do not short-circuit them and never take the batteries apart.
- Consult a physician immediately if a battery has been swallowed.
- Please observe the correct polarity when inserting the battery.
- Clean the battery and device contacts if necessary before inserting.
- Remove empty batteries from the device immediately. Increased risk of leakage!
- Do not expose the batteries to extreme conditions, e.g. on heaters. Increased risk of leakage!
- Non-observance can lead to batteries discharging beyond their end-point voltage and leaking. Remove batteries immediately in order to avoid damage. Avoid contact with skin, eyes and mucous membranes. Following contact with battery acid, rinse the areas concerned straight away with plenty of clear water and consult a physician immediately.
- Remove the battery from the device if it is not in use for a longer period of time.

# Assembly and scope of delivery

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## Assembly diagram

1. Graduated measuring surface
2. Internal measuring surface
3. LCD display
4. Securing screw
5. Button battery (1.5 V)
6. Battery cover
7. Slider
8. Protective cover
9. Depth rod
10. External measuring surface
11. Electric current on/off switch
12. Zero adjuster
13. Depth rod conversion for mm/inch
14. Fine adjustment wheel



## Scope of delivery

- Slide gauge
- Button battery
- Case
- Directions for use
- Guarantee card contained in the directions for use

## Preparation

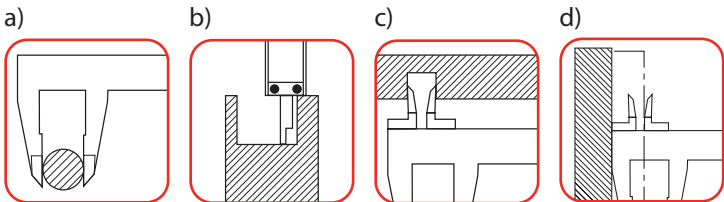


- Dry the surface of the measuring scale and clean the measuring surfaces.
- Loosen the securing screw and move the slider to check whether the LCD display and all keys work perfectly.

- The zero setting in any position facilitates graduated measurements. Press the “zero”, key to determine zero. This allows differential measurements (negative measurements are indicated by “-”).
- Inch/mm conversion in every position. Press the mm/inch key to display the measuring result in the other unit.
- The slide gauge can be operated particularly precisely with the fine adjustment wheel for very exact measurements.
- Automatic and manual switching on and off of the electric current.

## Measureings

- a) External measuring
- b) Depth measuring
- c) Internal measuring
- d) Graduated measuring



### Tip

Use the fine adjustment wheel for precise measurements. It facilitates the exact adjustment of the slide gauge.

### PLEASE NOTE:

In the event of electrostatic discharge onto the housing the display can reset itself or an incorrect value can be indicated. In this case the measurement must be repeated.

To this end switch the device off and then on again. Carry out zero adjustment by pressing the zero adjuster (ZERO) key.

## Help table

Practical help table for cutting threads

(also see the reverse side of the slide gauge):

Column 1: screw size

Column 2: thread pitch

Column 3: min. borehole diameter

Column 4: suitable standard drill size

Metr. ISO			
Screw size Ø mm	Pitch Ø mm	Borehole Ø mm	Drill size Ø mm
3	0.5	2.46	2.5
4	0.7	3.24	3.3
5	0.8	4.13	4.2
6	1	4.92	5
8	1.25	6.65	6.8
10	1.5	8.38	8.5
12	1.75	10.11	10.2
16	2	13.84	14
20	2.5	17.29	17.5
Whitworth			
Ø in	Ø/in	Ø mm	Ø mm
1/4	20	4.72	5.0
5/16	18	6.13	6.4
3/8	16	7.49	7.7
1/2	12	9.99	10.25
5/8	11	12.92	13.25
3/4	10	15.8	16.25
7/8	9	18.61	19
1	8	21.34	21.75

## Directions for use

Measuring:

- (1) Press the on/off key to switch on the electric current.
- (2) Press the mm/inch key to select the desired measuring unit.
- (3) Move the slider until two external measuring surfaces come into slight contact and then press the zero adjuster to start regular measuring. You can fix the slide gauge using the securing screw to safeguard the measuring result.
- (4) Press the on/off key to switch off the electric current; the electric current is switched off after 5 minutes if the slider is not moved any more after the end of the measurements.
- (5) The slide gauge needs a few seconds (approx. 5-6 seconds) to adjust itself after the battery is inserted. The slide gauge can only be switched on after the adjusting procedure has been completed.

## Replacing the battery

Abnormal display (flickering numerals or no display at all) points to low battery voltage and the battery must be replaced. Remove the battery cover in the direction of the arrow and replace the battery by a new one.

Please contact the supplier if the battery bought on the market does not work perfectly, (voltage too low as stored for too long and self-discharge of the battery).

## Troubleshooting

Note:

- The battery plus terminal must point outward.
- Reset the zero-point of the measuring after replacing the battery.

<b>Fault</b>	<b>Possible cause</b>	<b>Solution</b>
Flashing display	Low voltage	Replace battery
No display	1. Low voltage 2. Loose contact	1. Replace battery 2. Adjust fit of the battery
Fixed or flickering display	Random fault in the circuit	Remove the battery and insert again after one minute

## Maintenance instructions

- 1) Before use, clean the surface of the measuring scale with a dry, clean cloth (or a cloth saturated in cleaning oil). Protect the measuring scale against aqueous liquid.
- 2) Do not attach voltage to any part of the digital caliper (e.g. for engraving using an electric pen), as otherwise the circuit could be damaged.
- 3) Remove the battery if the instrument will not be in use for a longer period of time.

## Useful information

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### Protection of the environment / disposal



In the interest of the protection of the environment dispose of the slide gauge professionally. Hand the slide gauge over to an electronic scrap collecting point and do not dispose of it with household refuse.



Remove the battery beforehand and dispose of it properly at a collecting point for batteries.

Packaging materials are also raw materials. Please therefore supply them to the raw materials cycle. The local administration department can inform you regarding addresses and the opening times of the collecting points.

## **Guarantee**



Dear Customer,

Our products are subject to stringent quality control.

If this device should not function correctly please contact our service address stated below. We are also available by phone at the service hotline number stated below.

Please contact us by phone or in writing before sending a faulty device to our service centre in order to speed up handling.

There is a 3 year guarantee period that commences on the date of purchase. Please retain the receipt as proof of purchase.

During the guarantee period faulty devices can be sent freight collect to the service address stated below. You will then be sent a new or repaired device free of charge. The following applies to the assertion of claims under guarantee:

- Claims under guarantee can only be asserted within a max. period of 3 years as from date of purchase. Our guarantee is restricted to the rectification of material and production faults or the replacement of the device respectively. Our guarantee is free of charge for you.
- Claims under guarantee must be raised immediately in each case after gaining knowledge of them. The assertion of claims under guarantee after expiry of the guarantee period is excluded, unless the claims under guarantee are raised within a time-limit of 2 weeks after expiry of the guarantee period.
- Please send a faulty device together with the guarantee card and the receipt freight collect to the service address.

If the fault comes within our guarantee, you will receive a repaired or a new device.

A new guarantee period does not begin following the repair or replacement of the device. The guarantee period of 3 years as from date of purchase remains authoritative. Please observe that our guarantee expires in the case of improper or incorrect handling, non-observance of the valid safety precautions for the device, use of force, damages due to force majeure or in the case of intervention by an unauthorised service address.

If in case of repairs this device has to be sent to the service address, please be sure to pack the product appropriately. We do not accept responsibility for damages caused during transport.

After expiry of the guarantee period you also have the possibility to send the faulty device to the address stated below for repair. Repairs arising after expiry of the guarantee are subject to a charge.

We will rectify faults on the device that are not (or no longer) covered by the scope of the guarantee or damages due to which the guarantee has expired against reimbursement of the costs. For this purpose please send the device to our service address.

Your legal rights are not restricted by this guarantee.

**WORKZONE®**

# DIGITAL CALIPER

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## 3 YEAR GUARANTEE

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Name \_\_\_\_\_

Adress \_\_\_\_\_  
\_\_\_\_\_

Reason of complaint \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Fax \_\_\_\_\_

e-mail \_\_\_\_\_

Date of purchase \_\_\_\_\_

Place of purchase \_\_\_\_\_



DSV Air & Sea Pty Ltd.  
95-99 South Centre Road  
Melbourne Airport VIC 3043  
Australia

DC-1/02/2011



**CE** **EC declaration of conformity**  
2006/95/EC  
OVIBELL GmbH & Co. KG  
Steinshoffweg 2 - 45479 Mülheim an der Ruhr

On my own authority I declare that the construction  
of the

**model DC-1**  
**digital caliper**

complies with the following pertinent regulations:  
EN 61010:2001

Mülheim, a. d. Ruhr  
01.01.2011

Volker Dillen  
Managing Director

## AFTER SALES SUPPORT

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 [service.ovibell@au.dsv.com](mailto:service.ovibell@au.dsv.com)

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MODEL NUMBER: DC-1/02/2011

