

**3472**

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**DIGITAL CALLIPER  
DIGITALE SCHUIFMAAT  
PIED À COULISSE À AFFICHAGE NUMÉRIQUE  
PIE DE REY CON DISPLAY DIGITAL  
SCHIEBLEHRE MIT DIGITALER ANZEIGE  
PAQUÍMETRO DIGITAL**



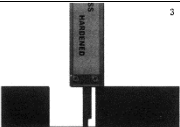

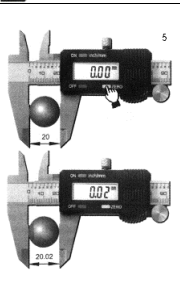
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**Applications - Toepassingen - Applications -  
Aplicaciones - Anwendungen - Aplicações**

1		<ul style="list-style-type: none"> <li>• Measuring external dimensions</li> <li>• Externe afmetingen</li> <li>• Mesurer la dimension extérieure</li> <li>• Medir las dimensiones exteriores</li> <li>• Außenabmessungen</li> <li>• Medir a dimensão exterior</li> </ul>
2		<ul style="list-style-type: none"> <li>• Measuring internal dimensions</li> <li>• Interne afmetingen</li> <li>• Mesurer la dimension intérieure</li> <li>• Medir las dimensiones interiores</li> <li>• Innenabmessungen messen</li> <li>• Medir a dimensão interior</li> </ul>

3		<ul style="list-style-type: none"> <li>• Measuring depth</li> <li>• Diepte meten</li> <li>• Mesurer la profondeur</li> <li>• Medir la profundidad</li> <li>• Tiefe messen</li> <li>• Medir em profundidade</li> </ul>
4		<ul style="list-style-type: none"> <li>• Measuring steps</li> <li>• Stappen meten</li> <li>• Mesurer en étapes</li> <li>• Medir paso a paso</li> <li>• Schrittweise messen</li> <li>• Medir em etapas</li> </ul>
5		<ul style="list-style-type: none"> <li>• Deviation from reference size A (with "0" button)</li> <li>• Afwijking van referentiegrootte A (met nulknop)</li> <li>• Déviation de la taille de référence A (bouton zéro)</li> <li>• Desviación del tamaño de referencia A (con puesta a cero)</li> <li>• Abweichung der Referenzgröße A (mit Nullstellung) messen</li> <li>• Desvio da medida de referencia A (botão zero)</li> </ul>

# USER MANUAL

## 1. Introduction

**To all residents of the European Union**

**Important environmental information about this product**



This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

**If in doubt, contact your local waste disposal authorities.**

Thank you for choosing Toolland! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

## 2. Safety Instructions

Refer to the **Velleman® Service and Quality Warranty** on the last pages of this manual.

	<p>Keep this device away from children and unauthorized users.</p>
	<p><b>DO NOT</b> disassemble or open the cover. There are no user-serviceable parts inside the device. Refer to an authorized dealer for service and/or spare parts.</p>
	<p>Protect this device from shocks and abuse. Avoid brute force when operating the device.</p>

- Familiarise yourself with the functions of the device before actually using it.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.

- Only use the device for its intended purpose. Using the device in an unauthorised way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Keep this manual for future reference.

### 3. Overview

Refer to the illustrations on page 2 of this manual.

<b>1</b>	OFF key
<b>2</b>	ON/METRIC/INCH change over key
<b>3</b>	data output socket

<b>4</b>	battery cover
<b>5</b>	zero setting

### 4. Applications

Refer to the illustrations on pages 2 and 3 of this manual.

### 5. Cleaning and Maintenance

- Keep the device and the battery compartment clean and prevent liquids from entering the electronic part to avoid damaged electronics.
- Clean the device with petrol, lubricate the body with some clock oil. Acetone and alcohol should not be used.

### 6. Troubleshooting

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
The 5 digits change every second	Battery voltage is under 1.45 V	Replace battery.
Displayed value does not change.	Circuitry malfunction	Remove the battery and put it back after 30 seconds.

LCD shows 000.00 mm / 00.000 in	One of the keys is short circuited	Remove the cover and adjust key spring position
Function keys do not work	Key spring is bent or deformed	Remove the cover and adjust key spring position
Calliper does not measure accurately	Sensor is dirty	Remove the cover and slider assembly, clean the sensor with pressure air ( $\leq 51 \text{ kg/cm}^2$ ), and clean it with a little petrol for dirt prevention.
No display on LCD screen	<ol style="list-style-type: none"> <li>1. No battery contact.</li> <li>2. Battery voltage is under 1.1 V.</li> </ol>	<ol style="list-style-type: none"> <li>1. Restore battery contact.</li> <li>2. Replace battery</li> </ol>

## 7. Technical Specifications

data output	serial output for interface with host computer or printer
maximum measuring speed	1.5 m/sec or 60"/sec
display	LCD, features minus sign "-", character in 6.35 mm / 0.25" height for 5 digits, small digit "5" and "IN" indication for inch measuring unit
battery	1x 1.5 V silver oxide battery for one year of continuous use low-battery warning by flashing display
operating temperature	0°C ~ +40°C
storage temperature	-20°C ~ +70°C
operating humidity	0 to 80%

Measuring range	Resolution and Repeatability	Accuracy
0-200 mm / 0-8"	0.01 mm / 0.0005"	0.03 mm / 0.001"
200-300 mm / 8-12"		0.04 mm / 0.0015"

**Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulting from (incorrect) use of this device. For more info concerning this product and the latest version of this manual, please visit our website [www.toolland.eu](http://www.toolland.eu). The information in this manual is subject to change without prior notice.**

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