

**PRO**<sup>®</sup>  
WE SET THE LEVELS



USER MANUAL  
**DIGITAL LEVEL**

**PRO900 DIGITAL**

[www.firma-pro.com](http://www.firma-pro.com)

**Thank you for buying PRO900 Digital Spirit Level,  
a durable and reliable device designed  
for professional users.**

### **General information**

Read the manual prior to using the device. Follow the instructions mentioned below. Failure to observe the instructions included in the manual may cause damage to the device. Keep the manual handy for future reference. In order to avoid unnecessary mistakes and accidents, it is important that everyone who uses the device is familiar with its use and functions.

Keep the manual and make sure it stays with the device if you move it or sell it. For safety reasons, observe precautions for safe operation mentioned in the manual. The manufacturer is not responsible for damages caused by wrong use of the device.

This manual applies to the following models:

PRO900 DIGITAL 20, PRO900 DIGITAL 40,  
PRO900 DIGITAL 60, PRO900 DIGITAL 80,  
PRO900 DIGITAL 100, PRO900 DIGITAL 120,  
PRO900 DIGITAL 150, PRO900 DIGITAL 180,  
PRO900 DIGITAL 200,

PRO900 DIGITAL M 20, PRO900 DIGITAL M 40,  
PRO900 DIGITAL M 60, PRO900 DIGITAL M 80,  
PRO900 DIGITAL M 100, PRO900 DIGITAL M 120,  
PRO900 DIGITAL M 150, PRO900 DIGITAL M 180,  
PRO900 DIGITAL M 200.

## Intended use/purpose

The digital spirit level is designed and intended for determining inclinations and angles.

### 1. Content of the package

- » PRO900 Digital Spirit Level
- » User Manual
- » Set of batteries 3xAAA, 1.5V
- » Carrying bag (refers to the variant with a carrying bag included)

### 2. Technical specification and data

Lp. Parameter	Additional information	Value
1) Accuracy	at 0° and 90° in the range: 1° to 89°	±0,1° ±0,2°
2) Units	Units can be chosen by pressing the button (2) "UNIT",	[°], [%], [mm/m], [inch/ft]
3) Memory space	Memorizing the measurement by long pressing the button (7) - "SOUND"	19 separate measurements
4) Working temperature	Temperature range that ensures proper operation of the device.	from +5° to +30°
5) Storage temperature	Exceeding this parameter may cause the need to recalibrate or may damage the device.	from -5° to +40°
6) Power source	Use alkaline batteries only. The device is equipped with the "auto-turn off" function. If the device does not detect a change of angle in 10 minutes, it turns off automatically.  Estimated working time for one set of batteries.	3x AAA, 1.5V 150h backlight off 75h backlight on
7) Ingress protection level	Protection against dust and water.	IP65

### 3. Before first use

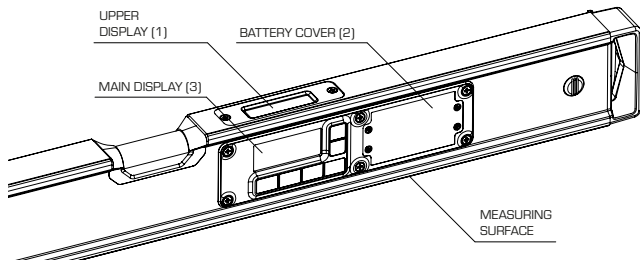
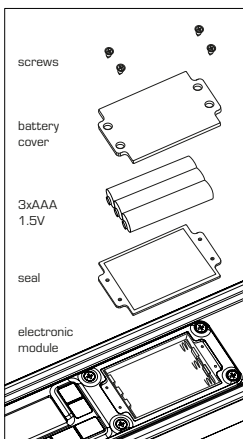
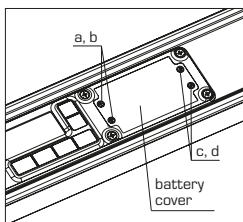
- a) Open the box and check if the elements listed in 1. are present.
- b) Open the cover using a small screwdriver (screws a, b, c, d).
- c) Place 3xAAA 1.5V batteries in the module.

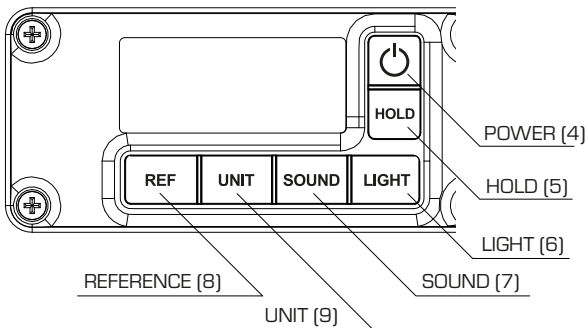
d) **WARNING!**

The seal under the battery cover provides an appropriate degree of water protection. In case the seal was taken out, it has to be placed back together with the battery cover.

Make sure the rubber seal of the battery compartment is not misshaped.



- e) Screw on the battery cover using the screws until you encounter resistance. Appropriate screwing is essential for maintaining IP65 protection rating.





- f) Turn on the device using the "POWER" (4) button.
- g) Place the device on the levelled surface. Make sure it is in the horizontal position. You can use the built-in spirit level of the device or another spirit level. Check the indications displayed on the screen.
- h) Similarly as in point g) place the device in the vertical position. Check the indications displayed on the screen.
- i) If the screen shows " $0.00^\circ \pm 0.1^\circ$ " for horizontal position and " $90.00^\circ \pm 0.1^\circ$ " for vertical position, the device is calibrated and ready to work. If the indication differs from „ $0.00^\circ$ “, move to point 5 and calibrate the digital level.
- j) If the indications on the display screen for horizontal or vertical position are other than the values mentioned above, move on to point 5 ("Calibration") and calibrate the device.
- k) Check the device again (according to points g, h, i).

## 4. Working modes and functions

No. Mode	Description
1) Normal mode	<ol style="list-style-type: none"><li>1. Press the "POWER" (4) button. The device turns on,</li><li>2. Change to desired units by pressing the "UNIT" button (9). The device is ready for work. The main display view: </li><li>3. The arrows on the display indicate the direction in which to rotate the spirit level to obtain an even angle (0°, 90°).</li></ol>
2) BACK LIGHTED Screens	<ol style="list-style-type: none"><li>1. Short press the "LIGHT" button to turn on/turn off the backlight</li></ol> <p>WARNING: The backlight is automatically on when you turn on the device. If the backlight is not needed, turn it off to save energy and allow for longer operation time.</p>
3) SOUND mode	<ol style="list-style-type: none"><li>1. Short-press the "SOUND" (7) button to turn on SOUND mode:<ul style="list-style-type: none"><li>» At exact angles 0°, 30°, 45°, 60°, 90° - continuous sound</li><li>» Up to 1° above angles 0°, 30°, 45°, 60°, 90° - fast beeping sound</li><li>» Up to 1° below angles 0°, 30°, 45°, 60°, 90° - slow beeping sound</li></ul></li></ol>
4) Relative measurement	<ol style="list-style-type: none"><li>1. Turn on the device, and choose the desired units,</li><li>2. Set the device at the angle you want to check deviations from,</li><li>3. Press the "REF" (8) button shortly. Now your device is turned on for relative measurement. The device will indicate „0" (zero),</li><li>4. Press the "REF" (8) button again. The device returns to absolute measurement. The main display view in relative measurement: </li></ol>

No. Mode	Description
5) Memory mode	<ol style="list-style-type: none"> <li>1. Turn on the device, and choose the desired units,</li> <li>2. Set the device at the angle you want to store,</li> <li>3. Long-press the "SOUND" (7) button (for approx. 2 sec.),</li> <li>4. The screen will start to flash and in the right bottom corner the number of the stored measurement will appear:</li> </ol> <div data-bbox="605 297 895 419" style="text-align: center;"> </div> <ol style="list-style-type: none"> <li>5. When the screen stops flashing, your measurement has been stored. The device turns back to normal mode and you can continue to work,</li> <li>6. Repeat again steps 2, 3, 4 to store more measurements,</li> <li>7. Long-press the "LIGHT" (6) button (approx. 2 sec.) to read stored measurements. Use "REF" (8) and "SOUND" (7) buttons to scroll through stored data.</li> <li>8. Long-press the "LIGHT" (6) button to switch back to Normal mode.</li> </ol> <p>WARNING! After filling all 19 memory slots, the next measurement will overwrite the oldest one.</p>
6) HOLD function	<p>When measuring while you can't see the screen, you can use the "HOLD" function.</p> <ol style="list-style-type: none"> <li>1. Make a measurement,</li> <li>2. Press the "HOLD" button (5),</li> <li>3. Take the spirit level back and read the value,</li> </ol> <p>The screen in HOLD mode ("H" letter is visible):</p> <div data-bbox="605 955 895 1077" style="text-align: center;"> </div> <ol style="list-style-type: none"> <li>4. Press again the "HOLD" button (5) to exit the Hold mode.</li> </ol>
7) Display autorotate	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>at normal position HORIZONTAL measurement</p> </div> <div style="text-align: center;"> <p>at reverse position VERTICAL measurement</p> </div> </div>

## 5. Calibration

All devices are factory calibrated. However, due to mechanical shock or exposure to too high or too low temperatures, the need to recalibrate the device may occur.

### PRO900 Digital Spirit Level calibration

a) Find a horizontal surface. You can check the surface using the built-in spirit level. If the digital level is not equipped with a spirit level, use another spirit level for measurement.

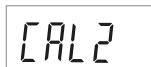
b) Press the „HOLD” (5) button for approx. 3 seconds.

The „CAL1” sign will appear on the screen.

Press the „REF” (8) button.

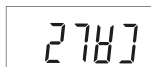
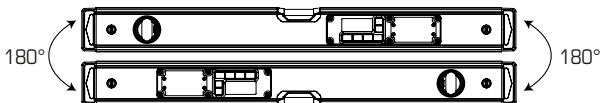
A rectangular LCD display showing the text "CAL 1" in a digital font.

c) Leave the digital level intact until the screen shows a „CAL2” indication.

A rectangular LCD display showing the text "CAL 2" in a digital font.


d) Rotate the digital level 180° and place the device on the very same horizontal surface.

Press the „REF” (8) button.

A rectangular LCD display showing the number "27.8" in a digital font.

e) Wait approx. 4 seconds until the screen shows:

**Calibration has been finished correctly!**

A rectangular LCD display showing the number "0.00" in a digital font, with a minus sign on the left and a degree symbol on the right.

**WARNING!** Calibration can be repeated several times. While calibrating the device, it is important to place the device ideally in repeatable conditions in horizontal position.

Calibrating the device on an inclined surface may cause wrong indications.



## 6. Conservation and storage

- » If the device will not be used for a longer period of time, take the batteries out;
- » Store away from children;
- » Do not clean using abrasive cleaners. Clean by using a soft cloth moistened with water or a mild detergent.

### Forbidden usage:

Handle the device carefully. Observe the following recommendations:

- » The device must be used in accordance with the intended use.
- » Before use check if the device is not damaged. If any part of the device is damaged, do not use the device.
- » Do not drop the device - this may cause damage.
- » Do not repair the device on your own or make any modifications to the device.
- » The device is not a toy - keep out of children's reach or provide sufficient supervision.
- » Do not throw into fire.
- » Do not dispose of with normal domestic and other wastes at the end of its service life.
- » Do not use in explosive and/or flammable conditions.
- » Protect the device from high and low temperatures.
- » People with cardiac pacemakers must not expose themselves to magnetic fields generated by the device equipped with magnets.
- » Do not use the device equipped with magnets close to other electronic devices.
- » In case of devices equipped with magnets, do not allow for uncontrolled clamping of the device with the surface. Do not put hands between the device and the surface.



The device is marked with a crossed-out garbage bin, in accordance with Polish Act on Waste Electrical and Electrical Equipment and the European Directive 2012/19/EU on used electrical and electronic equipment (Waste Electrical and Electronic equipment - WEEE). Products marked with this symbol should not be disposed of or dumped with other household waste after a period of use.

The user is obliged to dispose of used electrical and electronic equipment by delivering it to designated recycling point in which dangerous waste are being recycled. Collecting this type of waste in designated locations, and the actual process of their recovery contribute to the protection of natural resources. Proper disposal of used electrical and electronic equipment is beneficial to human health and the environment. To obtain information on where and how to dispose of used electrical and electronic equipment in an environmentally friendly manner user should contact their local government office, a waste collection point, or the point of sale, where the equipment was purchased.



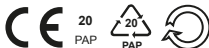
The batteries used in this product should not be disposed of with regular household waste, but treated according to the legal directives and local regulations. It is not allowed to dispose of batteries and accumulators with unsorted municipal waste. Users of batteries and accumulators must use the available collection points of these items, which allows them to return, recycle and disposal.

MANUFACTURER:

**PRO Sp. z o.o.**

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## Notes





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