ProLevel[®]v2

Software for Optimum Surface Measurements







You have made a good choice ...

ProLevel*v2, in combination with the display unit, provides optimum documentation of surface measurements.

The following functions and characteristics will convince you:

- Excellent user interface: logical and user-friendly and nevertheless fully suitable for professional use.
- Automatic connection management, wireless via Bluetooth.
- Automatic sensor detection.
- Measuring point comments can be inserted and edited.
- Easy-to-use touch screen, no keyboard needed.
- Reports and measured data can be stored on USB stick.
- Automatic calculation of the best reference.
- · High-performance display unit is robust and yet lightweight.

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Preparatory laser alignment for optimum surface measurements

1. Set up the T310 rotation laser in the direction of measurement.

Use the integrated spirit level to align the housing so that it is perpendicular.

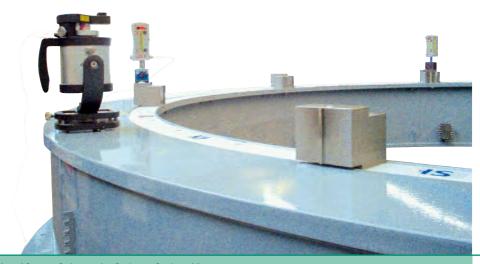




Now switch on the leveling function of the T310.



Now adjust the height of the tripod so that the laser beam strikes the middle measuring range of the receiver positioned on the measuring point.

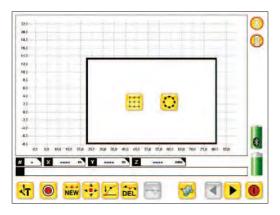




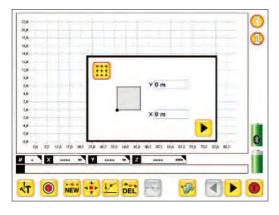
The software - first steps

Switch the sensor on and open the target window. For instructions for preparatory laser alignment, see page 3.

Start the ProLevel®v2 software via the desktop icon .
The software automatically establishes a connection to the sensor.

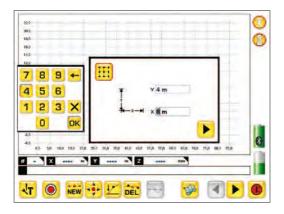


Select whether a rectangular surface or circles should be displayed. The selection refers to the first object to be measured.

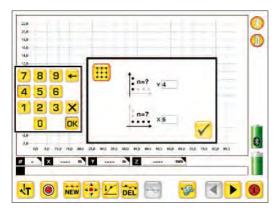


Determine the coordinate origin for the object to be measured. Normally the default value can be used here. Then click the "right" arrow to continue.

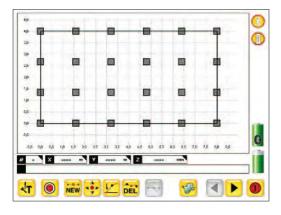




This screen is used to define the dimensions of the measuring grid.

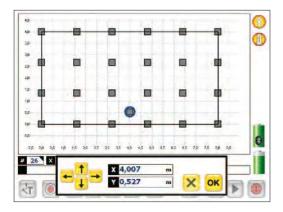


Here, the number of measuring points in the X and Y directions can be defined. If necessary, additional objects or measuring points can be added later.



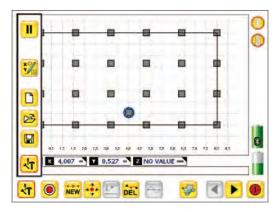
After entering the measuring points, the graphic with the measuring points is displayed. In this graphic the measuring points can be selected and measured by clicking them. Also, the graphic can be enlarged by pulling a window from the top left to the bottom right. Pulling the window from the bottom right to the top left restores it to the original size.

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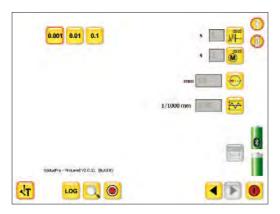
In the zoom-in view, the display can be moved in each direction by double clicking the graphic surface. This provides a good overview even when there are many measuring points.

Alternatively, you can click the axis scale and enter the Min and Max values directly. Clicking the "NEW" button creates a new measuring point with a single click of the position in the graphic. In addition, a window opens where you can enter coordinates.



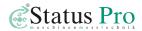
Selection of the menu (Buttons from top to bottom):

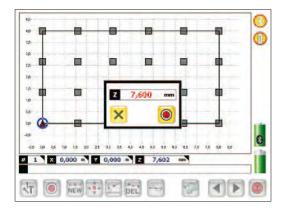
- Pause
- Add new measuring point
- Start new measurement
- Get data from memory
- Save
- Toolhox



Menu of the toolbox (Buttons from top to bottom):

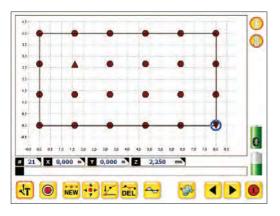
- Displayed resolution
- Averaging time of the display
- Averaging time of the measuring pick-up
- Mean value for two measuring points
- Tolerance range





After placing the sensor and selecting the appropriate measuring point using the touch screen, in this case 0/0 m, the "measure button" can be pressed.

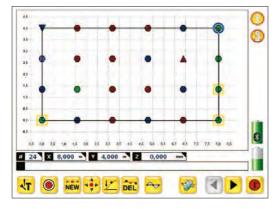
Pressing the "measure button" displays the current measured value and pressing the button saves the measurement.



After all points have been measured, the image shows all measuring points in an initial overview.

The symbols:

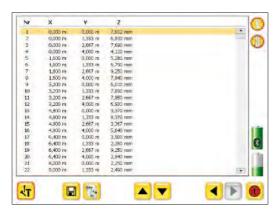
- = point within the tolerance
- = point too low the darker and more intense, the lower the point
- = point too high the darker and more intense, the higher the point



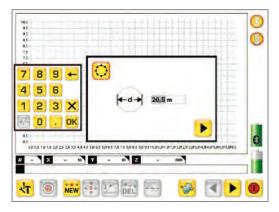
In any one axis, up to 2 measuring points can be zeroed, or a maximum of 3 points, to form a measurement plane. The deviation of all other points from this plane is displayed. If no point is zeroed, a compensation plane can be displayed ...

If necessary, it is also possible to "zero" only one point and to activate the compensation plane. This plane then extends through the zeroed point.

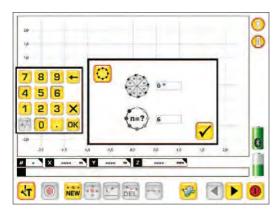
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Clicking the button displays the measured data in a table.



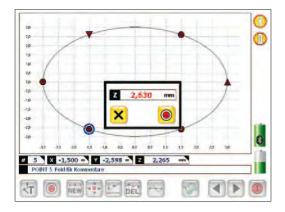
The software prompts the input of the circle diameter on which the measurement is to be carried out.



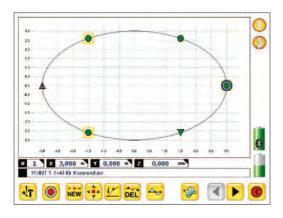
You can choose between two options for the input here:

- the angles at which a measurement is to be conducted on the circumference
- the number of measuring points on the circumference.

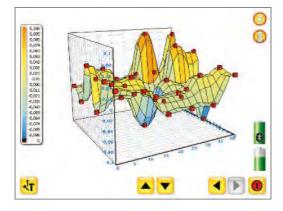




Afterwards, the circle is displayed and the measuring points can be selected and measured by clicking them.



Up to 3 points can be zeroed to generate a plane.



Pressing the button generates a 3D relief view of the measured values. The relief can be moved in any direction by holding down the mouse button.

The A buttons are used to zoom in or out.



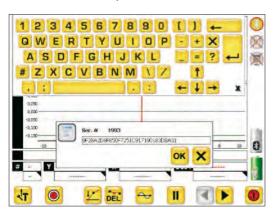
Register new sensors - license key

When you order a measuring package with a display unit from Status Pro, all components are ready to use when you receive them. If you wish to use your own computer or add additional sensors later, they have to be registered in the software in order to enable communication.



With your sensors, you receive a delivery note that includes a license key.

When you start ProLevel v2, the new sensor is found and the software prompts you to enter the license key.



Enter and confirm the license key that you received for the sensor. The unit is now ready for operation.



Description of program symbols

- Record measuring point
- 🐱 Set new point
- 😝 Move point, 똗 zero, 🗟 delete
- Compensating curve ("best fit")

 all deviations in +/- with same total
- 3D relief view
- Previous / next page
- Open / close settings
- Create new measuring data file
- 📴 Open measuring date file
- Save results of measurement
- Export results of measurements for reports
- Set pause for current measured value display
- 🎇 Create additional measuring surfaces
- 🖽 🖸 Redefine rectangle or circle
- x/y zero point rectangle / circle
- Define size of measuring surface
- Define number of measuring points in x and y direction

- Define diameter of circle
- Number of measuring points due to angle definition
- Number of measuring points on circumference
- Retrieve event log
- Search for sensors
- Definition of the displayed resolution
- Define averaging time of the display
- Define averaging time of the measuring pick-up
- Define mean value for two measuring points
- E Define tolerance range
- Bluetooth active / inactive
- Charge condition of receiver / DU310
- Enter sensor connection code (required only once for new sensors)
- End program

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DU310 UMPC



Part No. IT 200310

Operating system Windows XP prof.

(UMPC Edition),

XP embedded or CE 5.0

Processor AMD Geode LX800

Memory 512 MB - 1 GB RAM

Mass storage 512 MB - 8 GB Flash or 30 GB hard disk

Display 10.4" TFT, 1024x768, HiBrite

Touch Screen Control with pen or finger

Interfaces USB 2.0, CardBus PCMCIA Type II, CF-Card Slot,

Bluetooth integrated, WLAN integrated, VGA

Security Fingerprint reader, Intel WLAN Security

Rechargeable battery Li-lon 14 Wh internal, external extra battery 28 Wh replaceable

or 74 Wh battery pack in carry bag

Housing Magnesium/aluminum with rubber guard

Operating environment Temperature 0-40 °C, relative humidity 0–90 % n.c.

Dimensions & weight appr. 210x261x18 mm, 0.93 kg incl standard rechargeable battery

Special features Front is splash & water proof, shock proof from as high as 1.2 m

(with rubber guard), 5 configurable keys, up to 4 hours of operation; Optional: multi-language, daylight display



Accessories for DU310 UMPC

Illustration	Part No.	Name
1	IT 200202	Replacement control pen Quantity of 3 / package
X	IT 200205	Rubber guard handle For holding the UMPC with one hand; is fastened on back on rubber guard
Cr	IT 200206	Carrying strap for rubber guard handle Fastened on back on rubber guard
	IT 200207	External extra battery Li-lon 28W Can be replaced during operation
O -	IT 200208	1-compartment charging station for external battery
NO.	IT 200209	Car DC-DC converter 12V / 24V For connecting to docking station / car mounts or directly to the unit
FA	IT 200211	External expansion battery pack Li-ion 73W, charge level display



Part No. BG 830200/1

Rotation laser T310

The T310 leveling laser makes even difficult measuring tasks easy! A laser transmitter transmits the signal and a detector measures the beam position. Done!



Control of the T310

The control keys control various functions. In addition, LEDs function as displays.



1. IR-receiver with folding mirror



2. Leveling status -LED for Y-axis (or Z-axis in case of laying arrangement) Green 1x: Leveling < 0.04 mm/m; 2x: Leveling < 0.025 mm/m; Red LED: Actuator motor working



Leveling status LED for X-axis Green 1x: Leveling < 0.04 mm/m; 2x: Leveling < 0.025 mm/m; Red LED: Actuator motor working



Power status LED on / off



Power key on/off



Laser rotation on/off



7. Key cross for setting the laser level ▲ (+) / ▼ (-) As well as **4** (+) / **▶** (-)



8. Self-leveling on/off



9. Leveling status LED on/off



10. Level for rough leveling of the appliance



R310

The R310 measures the position of the rotating laser beam as a dial gauge from the workpiece for reference. The beam forms an entire reference plane and not just a line like a wire. The R310 is wireless and has a range of up to 80 meters.



Measuring range 80 mm
Resolution 0.01 mm

Accuracy +/- 0.02 + 0.3% linearity

IR control Range: 50 m

Interface Rs232 / Bluetooth (optional)
Power supply (rechargeable) battery 6x AA

Temperature range 0-50°C

Part No. BG 830100



Measuring range 20x20 mm Resolution 1um in X & Y Accuracy +/- 2µm Resolution 0.1° Inclinometer Laser sensitivity 650nm / modulated Wireless Bluetooth class 1a (range: 30m) Interface Rs232 / Bluetooth **Power supply** 12V rechargeable battery **Operation with battery** 8 hours 2 hours - 90% Charging time

IP 65

Protection class



Status Pro Maschinenmesstechnik GmbH Mausegatt 19 D-44866 Bochum Phone: + 49 (0) 2327 - 9881 - 0

Fax: + 49 (0) 2327 - 9881 - 81

www.statuspro.com info@statuspro.com

BA 1001E 10/10 · Design / DTP: Seichter & Steffens Grafikdesign, D-44229 Dortmund

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