



# Digital level



At GeoMax we understand that you require accurate results and demand ease of use in combination with fast operation. That's why we've introduced the ZDL700 digital level for the

surveying and construction world. Now you can 'go digital' for your entire levelling task with a product that delivers outstanding price-performance and "Works when you do!".

Works when you do

# Digital = Easy + Accurate + Fast

## QUICK, EASY & ERROR-FREE

The super fast measurement speed of less than 3 sec. in combination with the simplicity of the one-push measure and store functionality provides faster, more economical workflow. Digital reading combined with internal memory make mis-readings and operator interpretation errors a thing of the past.

## ACCURATE

Extensive field tests verify the excellent accuracy of the ZDL700 of 0.7 mm for 1 km double-run level. This makes the ZDL700 an ideal level not only for high order levelling but also deformation measurements and precise surveying, as well as general construction.

## LEAVE THE CALCULATOR IN YOUR POCKET

The onboard adjustment program, height difference calculation, inverse staff measuring mode, in combination with various measuring configurations enable you to execute all calculation with the ZDL700. Based on digital readings and automated calculation, never again will time consuming use of a calculator slow you down.

## LARGE INTERNAL MEMORY

To further enhance your levelling, memory for up to 2'000 points is integrated in the ZDL700. Features like the ability to switch between manual and automatic point numbering increase not only your flexibility but also allow you to document your work on the fly.





## SHOCK AND WATER RESISTANT STRUCTURE

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With the design criteria, "Works when you do!" GeoMax products are built to withstand all environmental conditions. The ZDL700 conforms with IP55 (IEC 60529) and is protected against jets of water from all directions. GeoMax's patented shock-resistant pendulum magnetic damped compensator ensures durability and precision. The ZDL700 is built to withstand all environmental conditions, GeoMax "Works when you do!".

## BUILT FOR ALL CONDITIONS

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The high quality optical system of the ZDL700 in combination with its proven algorithms ensures operation in all conditions, including low light and bright sunshine. Even in complete darkness, a small flashlight is all you need to continue accurate measurement. Whether working indoor, outdoor or in a tunnel the ZDL700 "Works when you do!".

## SEAMLESS DATAFLOW

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The data recorded on the jobsite can be simply downloaded by connecting the ZDL700 with a PC or laptop. Seamless dataflow from field to finish is guaranteed. In addition, external data collectors or PDAs provide you with an additional degree of flexibility for downloading or processing your measurements on-line.



### Accuracy

Height accuracy	$\pm 0.7 \text{ mm/km}$
Distance accuracy	$D < 10 \text{ m}, 10 \text{ mm} \mid D \geq 10 \text{ m}, 0.001 \times D$

### Systems

Maximum range	105 m
Minimum range	2 m
Single measurement speed	$< 3 \text{ sec.}$
Minimum lighting condition	20 Lux
Minimum field of view	$\geq 50 \%$

### Display

Minimum resolution (Ht)	0.1 mm
Minimum resolution (Dist)	1 mm

### Telescope

Magnification	24 x
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### Compensator

Range	$\pm 10'$
Setting accuracy	$\pm 0.35''$

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### Communication

Internal memory	2'000 measurements
Interface	RS232

### Environmental conditions

Operating / Storage temperature	$-10^{\circ} \text{ C} \sim +50^{\circ} \text{ C} / -40^{\circ} \text{ C} \sim +70^{\circ} \text{ C}$
Protection to dust and water	IP55

### Weight

Weight including battery	$< 2.5 \text{ kg}$
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### Battery

AA dry cells (4XLR6 / AA 1.5V) 1800mAh / 2300mAh	14/16 hours continuous measurement
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