

# THE NEW GENERATION

## AX<sup>®</sup> 02 Planograph

Segmented compact design



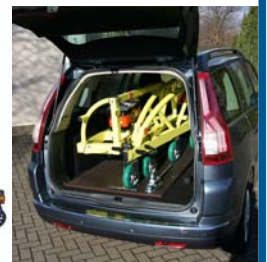
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Precision Electronic Instruments

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- 3 segments
- Easy to transport in a car and on pallet
- Without special trailer
- Space-saving storage
- Easy assembling on site
- Secured wheel adjustment
- Durable and waterproof industrial sensors

The planograph is used to measure precisely the surfaces of roads to evaluate the longitudinal unevenness of the surface layer.

The AX<sup>®</sup> 02 consists of 3 frame parts with a total of 10 wheels, a stabilizing wheel, a measuring wheel and an evaluation unit. The equipment can be operated by one person and in the rain also.



The planograph AX<sup>®</sup> 02 is characterized by a high-quality aluminium and stainless steel construction.

  
**Anix GmbH**  
PRECISION ELECTRONIC INSTRUMENTS

# THE NEW GENERATION

## AX<sup>®</sup> 02 Planograph

Technical data

- Electronic evaluation
- Immediate printing
- Storage of test results
- Compact design
- Simple 4-button user interface
- Excel<sup>®</sup> - spreadsheets
- Long operation time
- Robust and durable

The road surface is recorded continuously, limit violations are audible signaled.

#### Technical data:

June 2013

Technical data is subject to change without notice. We reserve the right to further developments and technical modifications of our products.

#### Planograph:

- Innovative connection of the segments, very low deflection
- Suitable for measurements in walking speed 8 km/h
- Corrosion resistant construction, robust and durable
- Wheel adjustment with vertical set screws
- Turning device for easy turning of the planograph (option)
- Limit value is adjustable before testing, automatic identification of p and p<sup>2</sup> (violation of the limit value)
- Pause / continuation of the recording during the test is possible
- Numerous possibilities for comments during measurement.
- Printing of summary table (p and p<sup>2</sup> and corresponding distances) on site
- Graphical analysis and print with Microsoft Excel<sup>®</sup> on a PC (graphical analysis is limited to approx. 5 km on Excel<sup>®</sup> 2000, XP and 2003 because of only 65 536 rows)
- The evaluation unit can be used on the frame or remotely connected with a optional spiral cable up to 7 m distance (expandable with additional cables up to 14 m or 21 m)

#### Electronic measuring device:

- Case made from PET, transparent top cover with scratch-resistant surface
- Thermal printer with 58 mm print width.
- SD card for storage
- Multi-line backlit LCD display, 4 external buttons, 6 internal buttons to operate.
- Audible signal in case of limit violation.
- Accuracy of measurement:
  - Vertical deflection: 0 .. 20 mm (resolution:  $\pm 0.1$  mm)
  - Distance: Infinite (resolution: appr. 10 cm)
- Battery: 4.8 V, 4 Ah, quick rechargeable in 2 h, for about 48 hours continuous operation
- Weight 4.0 kg

#### Dimensions:

- segments 1 and 3: length 1.45 m, height 0.72 m, weight 25 kg
- segment 2: length 1.30 m, height 0.72 m, weight 30 kg
- mounted: total length 4.20 m, height 0.72 m, weight 80 kg



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Evaluation with a Microsoft Windows PC

Ergebnistabelle:		17.07.12 12:49			
Station km	Meßwert (mm)	Überschreitung		Hinweis	
		p(mm)	p <sup>2</sup> (mm <sup>2</sup> )		
0,0000				BEGINN PFLASTER	
0,0300				ENDE PFLASTER	
0,0106	3,5	0		Verschmutzung	
0,0215	20,2	17		Entwässerungseinrichtung	
0,0265	3,3	0	0		
0,0297	6,8	4	16	Schacht	
0,0743	8,1	5		Verschmutzung	
0,1232	6,7	4		Verschmutzung	
0,1349	14,2	11	121	Übergang	
0,1427	9,2	6		Verschmutzung	
0,1587	3,9	1	1		
0,1640	7,1	4		Verschmutzung	
0,1671	3,3	0			
0,3252	3,7	1		Verschmutzung	
0,3873	5,4	2		Verschmutzung	
0,3899	4,8	2		Verschmutzung	
0,3935	9,9	7	49	Fahrspur	
0,3963	5,9	3	9	Fahrspur	
0,3984	3,8	1		Verschmutzung	
0,4007	6,9	4	16	Fahrspur	
0,4082			212		

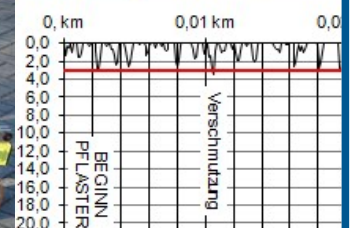
Edit Route:

- Subsequent changing of the start value (km)
- Possibility of inversion of the route: start->end to end->start (for inverted driving directions during measurements)

Edit and review table of results:

- Enter / edit comments of surface characteristics
- Possibility for customization of initialized comments.
- Remove values out of the p<sup>2</sup> calculation (for instance violations created by contamination)

- Analysis with Microsoft Excel<sup>®</sup>. No additional evaluation software - no administrative rights needed.
- Continuously automatic identification of limit violations
- Edit and review of the table of results
- Forwarding your report as a PDF or Excel<sup>®</sup> file
- Flexibility to create your own test report with your company logo and your layout





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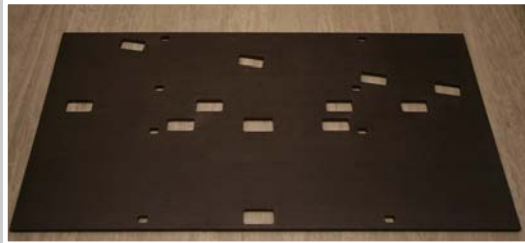
Storage and transport

■ Transport plate "BASIC" - approx. 163 x 86 x 2 cm.

■ The planograph on the transport plate. The wheels snap into the cutouts. Fastening with 2 tensioning belts. Height about 73 cm.

■ The transportbox "ADVANCED" consisting of transport plate, 4 wooden frames and a truck tarp. It is suitable for the transport on an pallet.

■ The Planograph AX<sup>®</sup> 02 - for transport in the car.



# The new Generation

## AX<sup>®</sup> 02 Planograf

Video documentation of the test run and the roadway surface

Zur Foto- oder Video-Dokumentation von Planografenmessungen oder zur Installation einer abgesetzten Anzeige wird eine Erweiterung der Auswerteelektronik AX<sup>®</sup> 02 angeboten.

Es gibt Messfahrten, in denen die Messung durch Videoaufzeichnung dokumentiert werden soll.

Auch bei Wiederholungsprüfungen, z.B. vor Erreichen der Gewährleistungsfrist, kann eine Messung im laufenden Verkehr erforderlich sein.

Hier ist eine Videoaufzeichnung sicherer als das Anhalten bzw. Aussteigen.

Mit einer wetterfesten Kamera erfolgt die Aufzeichnung eines Videos. Die km-Angabe auf dem großen Display wird dabei mitgefilmt.

Die Messergebnisse der Auswerteeinheit AX<sup>®</sup> 02 sowie die Bildmaterialien werden gemeinsam ausgewertet.

Die Energieversorgung der Anzeige erfolgt über die Auswerteelektronik.

Zubehör zum  
Planografen AX<sup>®</sup> 02:

- Externes Display  
Art. Nr. 573
- Wetterfeste Kamera  
Art. Nr. 574
- LED-Strahler inkl. Halterung  
Art. Nr. 575



# The new Generation

## AX<sup>®</sup> 02 Planograf

Safety during the test

Signal lamps for  
Planograph AX<sup>®</sup> 02 (options):

- Rotating light (55 W)  
(item no.: 522)
- Flash light (10 W)  
(item no.: 526)
- Battery box for Flash Light  
(item no.: 527)

Two orange warning lights are available to secure your test run:

The classic rotating light - RKL - and a low-power flash light.

The flash light requires about 5 times less energy than the rotating light and is recommended for operation with the battery box.

Both lights can be operated on the trailer socket (12 V) of the car. (13-pin connector; connected to terminal 9: continuous positive supply and terminal 13: ground).

With the battery box the flash light can operate without a car.

The fully charged 12 Ah battery lasts for at least 8 hours.

A 110-230 V to 12 V charger is included with the battery box. It provides a recharge of the battery within approximately 12 hours.

