

ALGE-TIMING



Manual Distance Measuring DMD-Arc5

Important Information

General

Before using your **ALGE-TIMING** device read the complete manual carefully. It is part of the device and contains important information about installation, safety and its intended use. This manual cannot cover all conceivable applications. For further information or in case of problems that are mentioned not at all or not sufficiently detailed, please contact your **ALGE-TIMING** representative. You can find contact details on our homepage www.alge-timing.com

Safety

Apart from the information of this manual all general safety and accident prevention regulations of the legislator must be taken into account.

The device must only be used by trained persons. The setting-up and installation must only be executed according to the manufacturer's data.

Intended Use

The device must only be used for its intended applications. Technical modifications and any misuse are prohibited because of the risks involved! **ALGE-TIMING** is not liable for damages that are caused by improper use or incorrect operation.

Power supply

The stated voltage on the type plate must correspond to voltage of the power source. Check all connections and plugs before usage. Damaged connection wires must be replaced immediately by an authorized electrician. The device must only be connected to an electric supply that has been installed by an electrician according to IEC 60364-1. Never touch the mains plug with wet hands! Never touch live parts!

Cleaning

Please clean the outside of the device only with a smooth cloth. Detergents can cause damage. Never submerge in water, never open or clean with wet cloth. The cleaning must not be carried out by hose or high-pressure (risk of short circuits or other damage).

Liability Limitations

All technical information, data and information for installation and operation correspond to the latest status at time of printing and are made in all conscience considering our past experience and knowledge. Information, pictures and description do not entitle to base any claims. The manufacturer is not liable for damage due to failure to observe the manual, improper use, incorrect repairs, technical modifications, use of unauthorized spare parts. Translations are made in all conscience. We assume no liability for translation mistakes, even if the translation is carried out by us or on our behalf.

Disposal

If a label is placed on the device showing a crossed out dustbin on wheels (see drawing), the European directive 2002/96/EG applies for this device.

Please get informed about the applicable regulations for separate collection of electrical and electronical waste in your country and do not dispose of the old devices as household waste.

Correct disposal of old equipment protects the environment and humans against negative consequences!



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1 General Settings

When you switch on the DMD-Arc5, it automatically shows the dialog for levelling the instrument. After levelling the instrument, you have to make the following settings so that the device works with our distance measuring software on your computer.

1.1 Menu

Open the settings of the tachymeter by pressing the button 'menu'. For using this tachymeter with your track and field distance measuring application, you have to adjust some settings. Depending on the menu point, several pages are shown which you can scroll through by using the button 'page'.

The available menu has two pages:

- 1 programs
- 2 settings
- 3 EDM settings
- 4 file management

- 5 adjustments
- 6 comm parameters
- 7 data transfer
- 8 system information

1.1.1 Programs

No adjustment is required.

1.1.2 Settings

This menu item has four pages. Please set the parameters as follows:

Contrast:	11
TriggerKey:	Off
User Key:	Level
V-Setting:	Horizon
Tilt Crn.:	2-axis
Coll.Crn.:	On
Sector Beep:	Off
Beep:	On
Hz<=>:	Right Angle
Facel Def.:	VK-Left
DataOutput:	RS232
Auto-Off:	Off
AngleReading:	0.00001
AngleUnit	deg
DisReading	0.1
Dist.Unit:	Meter
Temp.Unit:	°C
PressUnit:	hPa
GSI 8/16:	GS116
Mask1/2:	Mask2
Coord Mask:	Y/N X/E
NEH/ENH:	NEH

1.1.3 EDM Settings

This menu item has one page. Please set the parameters as follows:

EDM Mode: Fine [2]
Reflect: Prism
PrismConst: -30.0mm

1.1.4 File Management

No setting is required here.

1.1.5 Adjustments

No setting is required here.

1.1.6 COM Settings

Baudrate: 38400
Databits: 8
Parity: None
Endmark: CR/LF
Stopbits: 1

1.1.7 Datatransfer

No setting is required here.

1.1.8 System Information

No setting is required here.

2 Operation

- Switch on the DMD-Arc5 and level it with the menu LEVEL.
For more information about levelling your device, refer to the DMD-Arc5 manual. For an optimal alignment enter the level menu by pressing the button USER and exactly adjust the electronic level.
- Connect the distance measurement device to the PC.
- Choose the serial port where the device connects to the computer.
- Choose the used discipline, for example, horizontal jump is for long jump and triple jump.
- Each time you choose a discipline, you have to measure the reference points and then the control point. After that, the system is ready for measuring.

Please choose the discipline here!

Measure reference point 1

Measure reference point 2

Technical discipline Distance Measurement V1.6.5.2

Discus

Discus

3 Point Measurement (Circle)

Reported Distance

Foul Line

Reference point 1:
Distan Angle

Reference point 2:
Distan Angle

Control point:
Distan Angle

Distance: 0.0

Measurement:
Distan Angle

Distance: 0.0

COM1

Handshake

Load Language

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Choose the serial port here

Measured distance and angle

Result of measurement

Measure control point: This should have a distance of 0

Subject to changes

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