

Startmicrophone SM9



Manual

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

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 electronic 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

The SM9 starting microphone was developed to convert the starting sound of a startgun into an electrical signal that triggers the timing device. It is important that the loud bang of a startgun with 9 mm or 6 mm blank ammunition triggers the start, but other loud noises from the environment must be suppressed.

The startmicrophone is plugged into the banana plug on channel C0 of an ALGE-TIMING timing device. It is important for the SM9 to function that the channel has a pull-up, otherwise the SM9 will not work.

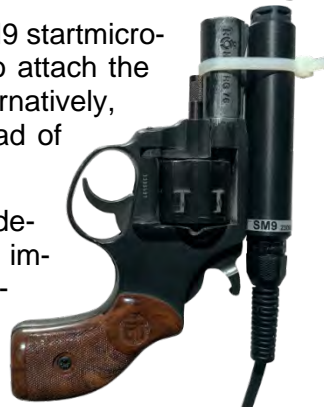
2 Scope of Delivery

1 x SM9 starter microphone with Velcro strap and 2 m cable with banana plugs

3 Setup of the System and Functioning

A Velcro strap is attached to the SM9 startmicrophone. This Velcro strap is used to attach the SM9 to the barrel of a start gun. Alternatively, you can also use a cable tie instead of the Velcro strap.

The SM9 is connected to the timing device with the banana plugs (start impulse channel C0). The start is usually far away from the timing device and the cable has to be extended or connected to fixed stadium cabling. The starting line is used for this.



Start gun with SM9 and cable ties fastening

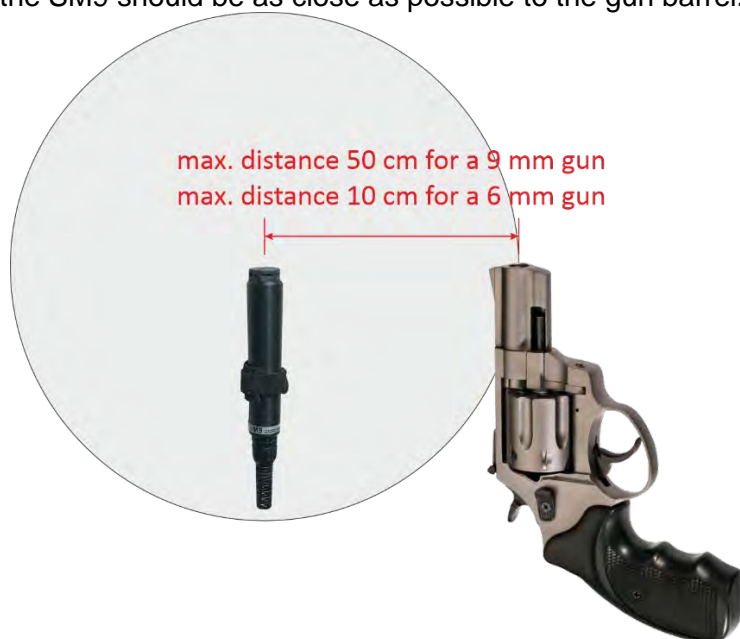


Start gun with SM9 and Velcro fastening



It is also possible to connect the SM9 directly to the speech amplifier (green black banana socket). The start cable is then connected to the other green and black banana socket.

The starting pistol should be a 6 mm blank pistol (for indoor use) or a 9 mm blank pistol for outdoor use. You can also attach the SM9 start microphone to a tripod, for example. In this case the head of the SM9 should be as close as possible to the gun barrel.





4 Power Supply of the Startmicrophone SM9

The SM9 is powered by the timing device via the timing channel (timing channel with pull-up is necessary).

5 Technical Data

Power supply:	via 2-wire cable from the timing device (pull-up)
Contact:	Signal output active low 3 to 10 VDC (max. switching current 100 mA)
Operating temperature:	-20°C to +60°C
Dimensions:	Length: 147 mm (with protective grommet) Max. diameter: 20 mm
Weight:	approx. 100 g including cable
CE conformity:	The device complies with CE requirements.

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