



Data sheet, (photo)instruction for use of the Automatic Controlled Descender



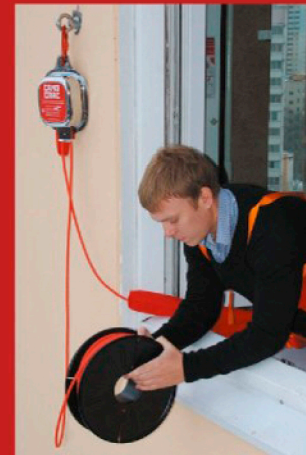
1. Take out



2. Hang up



3. Put on



4. Throw down



5. Climb over



6. Descend

Batch Number Date of manufacture

Sale Date Height of descent in meters

Date of re-certification QCD mark

Date of re-certification QCD mark



Stamp here



QCD mark

Manufacturer: **OOO "SAMOSPAS"**

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General information about the device.

Automatic Controlled Descender "Samospas" (hereinafter referred to as the Device) is designed for emergency evacuation of people or cargo from buildings and other high-rise structures in case of fires and other emergencies. The device is used when other means of evacuation are not possible. The device is fully automatic, does not require human involvement in the process of regulation of the descent speed and allows the evacuation of any categories of people or cargo in the specified weight range. The device is highly reliable, requires no special training, and easy to use.

Technical specifications of the device.

The descent height is indicated on the back side. The weight of the cargo or people to be descended is 40–200 kg. Descent speed – 1 ± 0.3 m/s. Guaranteed number of descents – 100 runs from a height of 50 meters. Operating temperature range is from -40 to $+40$ °C. Overall dimensions in the packing bag – 35 x 18 cm. Brake unit weight – 3.8 kg. Total diameter of the metal rope in the polyamide braiding – 8 mm.

Structure and scope of supply of the device.

The device consists of a brake unit with an inserted rope, at the ends of which two rescue triangles with shell covers are pressed at the corners, the long end of the rope being wrapped on a reel, a packing bag, a carabiner, slings for hands. The device case is made of metal, inside there is an adjustment gear through which the braided metal rope is passed. In the upper part of the case there is an eye end with an opening for connection to the fasteners by means of the carabiner. The reel with the rope and a second triangle is designed for fast unwinding of the rope. The rope consists of a metal core and a braid. At both ends of the rope slings are made by means of pressing, in each of them the rescue triangle is fixed permanently. The rescue triangle is the interface between a person and the rope. It has a triangular shape and is made of high-strength fabric with reinforced stitching. The anchorage point is not included in the scope of delivery of the device and is purchased additionally with the installation.

Safety precautions.

Use the device only when there are no other means of evacuation left. In exceptional cases, the device can be considered as a compensating measure for the unloading of main emergency evacuation routes. Do not use the device for self-training descent.

Maintenance and manufacturer's warranty.

The device does not require maintenance during the warranty period. At the end of the warranty period, the device should be returned to the manufacturer (its representatives) for inspection or replacement at the expense of the customer. A device that has been tested or replaced with a new one will be returned to the customer, and the next warranty period will be set. If the device is used by the customer in actual fire situation, the manufacturer carries out examination, repair or replacement of the device free of charge. The Manufacturer guarantees the conformity of the device specifications provided that the user meets the conditions of operation and storage. The warranty period from the date of manufacture is 5 years (the warranty period can be extended by additional agreement with the manufacturer). Guaranteed number of descents – 100 runs from a height of 50 meters. The warranty period for fixed anchorage points is given by the company that installed the points. Post-warranty service and inspection, as well as inspection of products with violation of storage conditions is carried out on additional agreement at the expense of the customer.

Transportation and storage.

The design of the device provides the possibility of its delivery to a specified area by all means of transport without speed limit at any distance. The device should be stored in a dry and heated room, without major humidity variations. The product should not be stored in the same room as petrol, kerosene, oils, acids or other chemical agents that can cause its damage. The packing bag should be stored at least one meter from the heaters. If moisture penetrates the product, it should be checked by the manufacturer at the customer's expense. It is also acceptable to store the device in metal cabinets, in fire cabinets and in multifunctional integrated fire cabinets.

Procedure for setting fixed anchorage points

Fixed anchorage points should be installed on the outside wall of the building, inside or outside, so that the following is provided: the possibility to descend outside the open flame exit area when installed outside at a distance of not fully extended arm to the side of the balcony or window. The recommended height from the floor is 170 ± 10 cm vertically, from the edge of the window frame or door balcony – at least 15 cm horizontally. In exceptional cases, it is acceptable to install a fixed anchorage point inside the floor or ceiling slabs. It is not recommended to use the device when the rope is bent at an angle less than 160° . The anchorage point should withstand a working load of at least 300 kg during the whole period of possible application of the device. **The independent installation of fixed points by the installation personnel who have not been trained in the engineering department of OOO "SAMOSPAS" is prohibited.** The manufacturer is not responsible for the functioning of the device and the reliability of the anchorage points if installed by the customer.

How to use the device.

1. Take out and open the packing bag.
2. Attach the device case to the anchorage point of the carabiner and screw the socket of the carabiner. If the fixed point is internally positioned, attach the carabiner located at the end of the extension sling to the fixed point ring, screw the carabiner socket and place the device behind the bend of the window sill or balcony opening.
3. Throw the rope reel down. Make sure that the reel has reached the ground (if the device is more than 50 meters long, you should first unwind the rope indoors and then lower the end of the rope to the ground).
4. Put on a rescue triangle. The triangle is put on as "shorts". Put the slings on the shoulders.
5. Climb over a window sill or balcony fence, if necessary, holding onto to an additional sling on the device. **Attention!** It is necessary to make sure that the rope is always tightened by pulling the excess rope through the brake unit on the free side before starting the descent.
6. Start descending. Make sure that the descent is vertical. It is possible to descend sideways by pushing off the wall with your hand or turning around facing the wall, bending your legs and resting them wide upon the wall. It is recommended that you make sure that the ascending rope does not intertwine with the descending one. You can hold the triangle with your hands during the descent.
7. After your feet touch the ground, you should sit down to let the rope slacken. It'll make it easier to remove the rescue triangle. Take off the triangle and make sure you put the cover thereon. Give a command to descend the next person.
8. The next person to descend takes the triangle ascended from below and repeats the actions set out in paragraphs 4 и 7.
9. The device is produced in an individual version for a specific object of evacuation. The length of the rope is calculated in such a way that when one descendant reaches the end of the descent, the second end of the rope with a fixed triangle is at a distance of 2 meters from the brake unit when installed at the window and 3 meters when installed in the ceiling. Thus, the device operates on the principle of "swing" and allows evacuating a large number of people in a short time.
10. Small children and animals should be descended together with adults. Put the children inside a separate triangle for children the following way: they face you and you cuddle them. Use special triangles for children, triangles for animals, baby rescue chamber bags for infants strapped to the main power unit (triangles and chamber bags are supplied by the manufacturer as an option).

Certificate of acceptance and sale.

The device meets technical specifications TU 4854-002-88345304-10 and is approved for use.

