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DOSIERTECHNIK GMBH

Operating Instructions

Analog Dispenser
IG - 1113D

Content

1 General information

Dear customer,
Thank you for choosing our model IG-1113D dispensing controller.To ensure proper operation, please carefully read the following pages for correct operating and maintenance instructions. Keep these instructions handy for future reference. If you require further information or if you have any questions please contact us directly.

1.1 The IG-1113D

The IG-1113D dispensing controller series consists of two models which have an output pressure of 0-1 and 0-7 bar respectivly, with no other differences. For this reason, only the model IG-1113D is referred to below. The IG-1113D is used for the precise dispensing of various liquids and pastes. The operation is achieved by using compressed air along with utilizing dispensing systems, such as small barrels containing 3 to 75 cc of material. With the units compressed air regulator, the dispensing pressure can be applied to the material and can be adjusted exactly to dispense the correct amount of material.
In conjunction with the built in precise timer, distinct and precise amounts of material can be dispensed.

1.2 Intended Use

The device is designed and constructed for commercial use. It is only to be used for dispensing liquid and paste materials such as adhesives, lubricants, various pastes, grease, oil, silicone and other similar materials. Any other use is considered improper. If this device is used for other purposes, personal injury or damage to property may result. The manufacturer assumes no responsibility for consequences resulting from improper use of the unit.

Non-intended use, which would also void the warranty, includes:

• Changes to the device not expressly recommended in the operating instructions • Modifications to the unit and its components • Use of incompatible or damaged spare parts • Use of non-approved accessories or auxiliary equipment • Exceeding the approved and recommended pressures

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2 Scope of delivery

Dispensing Controller IG-1113D

Input power cord 230V AC

Compressed air connection hose

Barrel stand (Art-Nr.: IG-DISP-SS)

Foot switch (Art-Nr.: IG-IG-DISP-F)

Finger switch (Art-Nr.: IG-DISP-HS)

Barrel adapter 30/55cc (Art-Nr.: IG-TEAE30/55B-6.20)

Accessories 0-7 Bar

Quantity	Designation	Size
5	Syringe barrel clear, angled bottom	30cc
5	Piston PE white, angled bottom	30/55cc
	Tapered tip set consisting of:	
2	Tapered tip/light green	10 gauge
2	Tapered tip/light orange	11 gauge
2	Tapered tip/light blue	13 gauge
2	Tapered tip/olive	14 gauge
2	Tapered tip/gray	16 gauge
2	Tapered tip /green	18 gauge
2	Barrel tip cap/clear	needle-sided
	Dispensing tip set 1/2" standard consisting of:	
2	Dispensing tip/green	18 gauge
2	Dispensing tip/pink	20 gauge
2	Dispensing tip/violett	21 gauge
2	Dispensing tip/orange	23 gauge
2	Dispensing tip/red	25 gauge

Accessories 0-1 Bar

Quantity	Designation	Size
5	Syringe barrel clear, angled bottom	30cc
5	Piston PE white, angled bottom	30/55cc
	Tapered tip set consisting of:	
2	Tapered tip/gray	16 gauge
2	Tapered tip/green	18 gauge
2	Tapered tip/pink	20 gauge
2	Tapered tip/blue	22 gauge
2	Tapered tip/red	25 gauge
2	Tapered tip/clear	27 gauge
2	Barrel tip cap/clear	needle-sided
	Dispensing tip set 1/2" standard consisting of:	
2	Dispensing tip/red	25 gauge
2	Dispensing tip/clear	27 gauge
2	Dispensing tip/lavender	30 gauge
2	Dispensing tip/yellow	32 gauge
2	Dispensing tip/light green	34 gauge

3 Safety instructions

3.1 General safety information

If this device is used for purposes other than those described in this operating manual, personal injury or damage to property may result. Only use the device in accordance with the enclosed instructions.

3.2 Dangers for the operator

- Read the operating instructions carefully before use.
- Always wear suitable protective clothing and eye wear.
- Smoking or open flames are strictly prohibited when dispensing any type of flammable liquid or paste.
- This device is intended for indoor use only.

3.3 Electrical safety instructions

- Before opening the dispensing unit, disconnect it from the power supply by disconnecting the input power cord.
- Failure to disconnect input power may risk electrical shock.
- The unit may only be opened by a trained and authorized electrical personnel.
- Operate the device exclusively within the maximum permitted rated power / settings.

3.4 Safety Instructions for Auxiliary- and Operating Materials

For details on proper handling and safety precautions, for materials to be dispensed ALWAYS check the Material Safety Data Sheet (MSDS).

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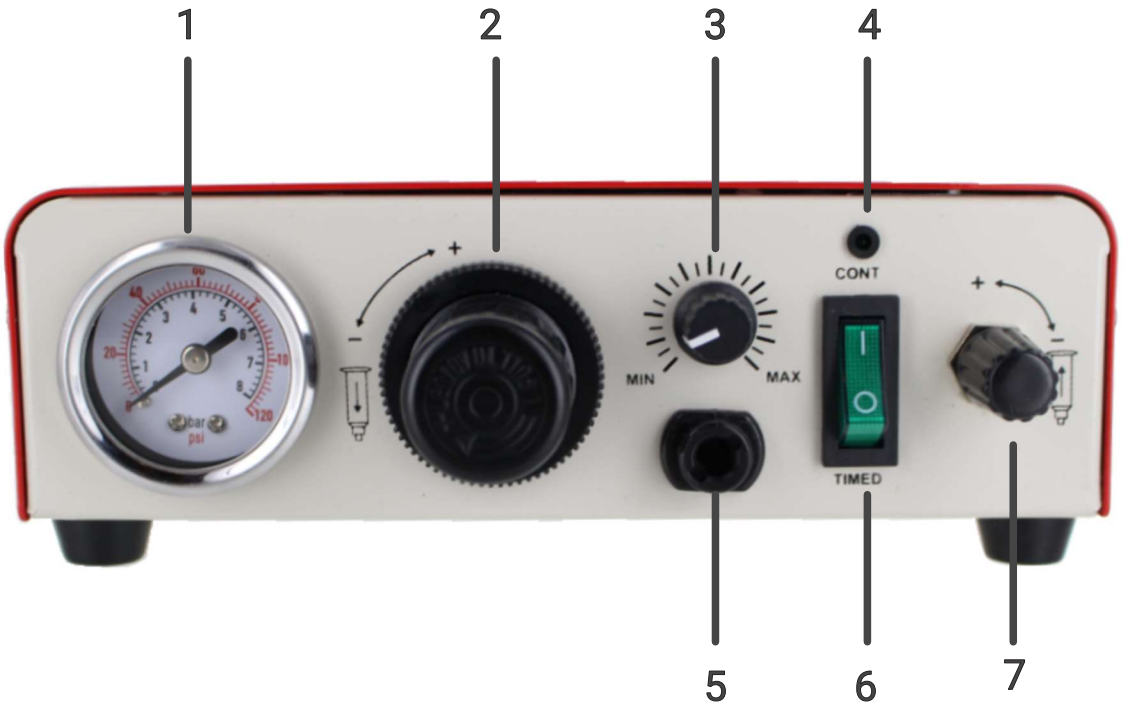
4 About your dispensing unit



1 Pressure gauge

2 Pressure regulator

3 Time dial

4 Status LEDs

5 Compressed air output

6 Mode switch

7 Vacuum regulators

8 Main power switch

9 Connection finger/foot switch

10 Main Power input

11 Exhaust

12 Compressed air input

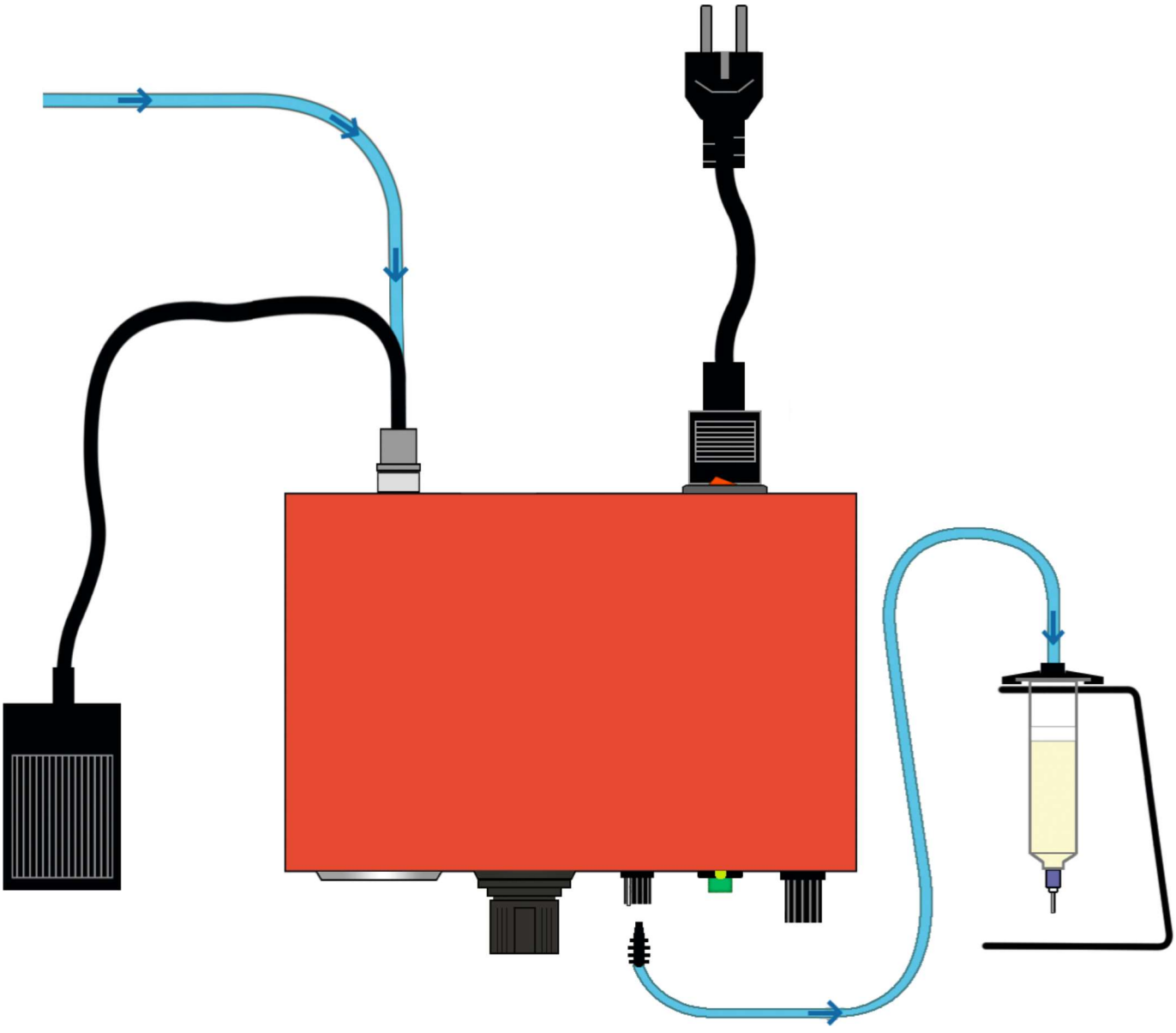
5 Commissioning

5.1 Connecting the device

- Unpack the dispensing controller and set it up on a worktable where it will be used. Preferably in a dry location.
- Using the airline hose supplied with the unit, connect the compressed air inlet [12] on the back of the dispensing unit to your compressed air supply. Make sure to supply the device with clean dry air only.
- Connect the power cable to the power connection [10] on the back of the unit. The unit can be operated either by finger switch, foot switch or a control cable, if the dispensing controller is to be integrated with a dispensing robot. All these cables are inserted into the socket for the foot switch [9] on the back of the unit.
- Switch on the controller.
- Seal a barrel filled with dispensing material using the barrel adapter by placing the adapter across the barrel and then locking it with a 90° turn.
- Select a suitable luer lock dispensing needle and attach it onto the barrel.
- Connect the hose of the barrel adapter to the compressed air outlet [5] of the IG-1113D and set the pressure with the pressure regulator [2]. Select a low dispensing pressure at the beginning and then increase it step by step.
- Test your setup by turning the green timer switch [6] to the off position to go to manual mode. If everything is connected correctly, the set dispensing pressure now pushes material out of the front of the dipensing needle until you let go of the foot- or finger switch.

5.2 Connection diagram

If you have connected all your air lines and wiring correctly your system setup will look something like this:



6 Operation

The different operating modes:

The IG-1113D has two different operating modes:

MANUAL Mode

In the manual mode you control the dispensing unit with the foot switch or finger switch. The unit dispenses the material as long as you hold down the switch or the button.

TIMER Mode

In the time control mode, the device dispenses the material for the duration of a preset time. This mode is useful if you want to dispense the same amount of material several times in the operation.

7 Differnt Variants

Variant 0-7bar:

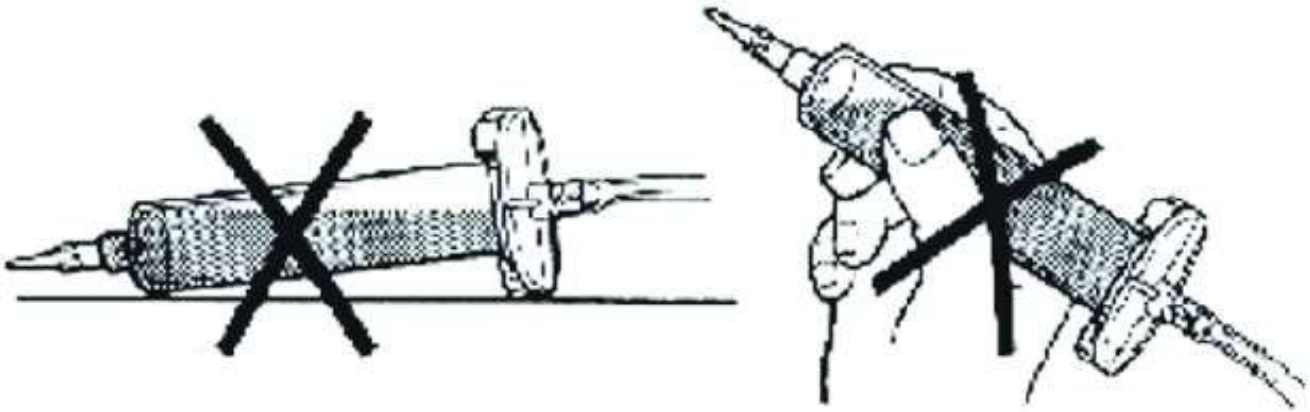
- For medium to high viscosity materials
- For bigger dispensing amounts
- Materials: silicones, thermal paste, PU, etc.

Variant 0-1 bar:

- For low viscosity materials
- For smaller dispensing amounts
- Materials: cyanoacrylate, anaerobic glue, oils, uv-glue, SMD-glue

8 Useful Information

When using barrels without piston, always make sure to keep the barrel pointed tip down and the dispenser in an elevated position. Otherwise material might reach the dispenser and cause damage.

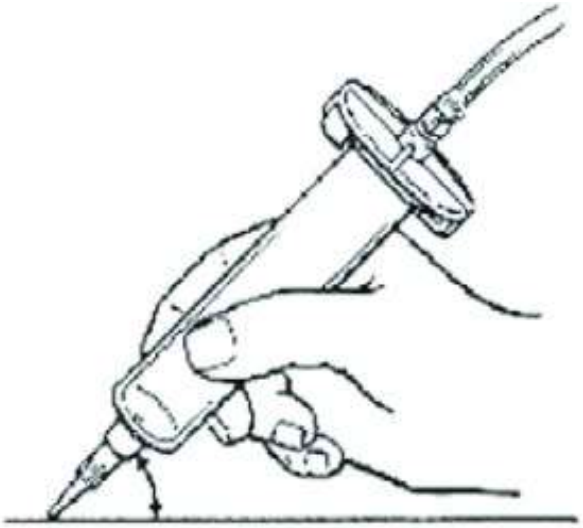


Moving of the decimal point:

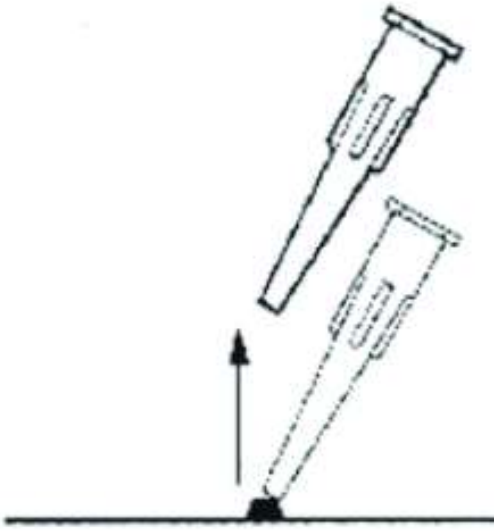
If longer dispensing times are required you can move the decimal point. After opening the device, you can find a push button an the main PCB. By pressing it you can move the decimal point back and forth.

In this case the warranty will not be voided if we are informed beforehand.

- Keep the barrel at an angle of about 60° to the surface. (Fig. 1)
- When finished, lift the barrel vertically up from your workpiece. (Fig. 2)
- To increase the amount of dispensed material you can either increase the pressure, or use a dispensing tip with a larger diameter. If you wish to decrease the dispensed amount, go the opposite direction.
- You can increase the pressure by turning the pressure regulator [2] clockwise, and counter-clockwise to decrease the pressure.
- To reach the disired pressure always move up from a lower pressure.
- To avoid material dripping from leftover pressure you can increase the vaccum retention by opening up the vacuum regulator. [7]
  Attention: Excessive vaccum might cause bubbles to form in the material. In addition, this can cause the material to be sucked out of the cartridge, into the dispensing unit.



(Fig. 1)



(Fig. 2)

9 Maintenance and Cleaning

The dispensing controller is maintenance-free. Any needed repairs must be performed by the manufacturer.

To clean the unit and the housing, use only dry or damp cloths and never use cleaning fluids such as petrol, thinners or any other flammable or corrosive liquid.

10 Disposal

At the end of its service life, dispose of the controller in accordance with the applicable local regulations.

Electrical parts cannot be disposed of with household waste.

According to Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), electrical equipment must be returned to the collection points set up for this purpose in order to be reused.

11 Technical data

Outer dimensions (D x W x H)	200 x 200 x 75 mm incl. Pressure regulator
Weight	ca.1,95 kg
Power supply	230 V AC 50/60 Hz
Internal voltage	24 V DC
Dispensing duration	0,01 bis 8 seconds
Compressed air input	0 - 7 bar
Compressed air Output	0 - 7 bar / 0 - 1 bar
Operation mode	manual / timer
Vacuum retention	yes
Available models	0 - 1 bar, 0 - 7bar

12 Declaration of Conformity

Product:	**Dispensing Controller**
Modell:	**IG-1113D** **IG-1113D-0-1-BAR**
Parameter:	**110-230V AC, 50/60Hz, 15W**

We confirm that the design and construction of the above-mentioned products comply with the provisions of the European Community directives listed below and the requirements for obtaining a CE mark.

EC Directive Electromagnetic Compatibility: 2014/30/EN
EN 61000-6-3: 2016
EN 61000-6-1: 2019
EN 61000-3-2: 2019
EN 61000-3-3: 2013+A2: 2021

EC Low Voltage Directive: 2014/35/EU
EN 61010-1: 2010/A1: 2019/AC: 2019-04

This declaration is made responsible for the following importer:

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Breitstetten, 14.02.2022

Doris Holda, Managing Director