



## Vacuum Controller / Distillation Controller

### Absolute Pressure 1400 - 1 mbar (Torr) DC1S VacuFox

The DC1S controls vacuum processes by means of internal, continuous valves for vacuum and venting.

Due to this operation with continuous valves and sophisticated software algorithms the DC1S easily outperforms usual vacuum controls. It operates independently of type and pump speed of the applied vacuum source.

Due to implemented fuzzy technology the controller adjusts extensively and independently to varying process conditions.



#### Typical Applications

- ▶ Vacuum distillation, rotary evaporators
- ▶ Chemical process engineering
- ▶ Analysis instruments
- ▶ Workplaces with centralized vacuum supply
- ▶ Filtration
- ▶ Regulation of complex pressure profiles
- ▶ Laboratory workplaces
- ▶ Process automation
- ▶ Casting

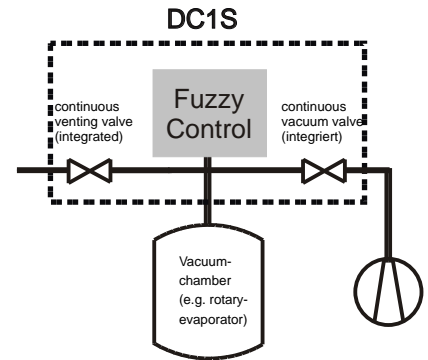
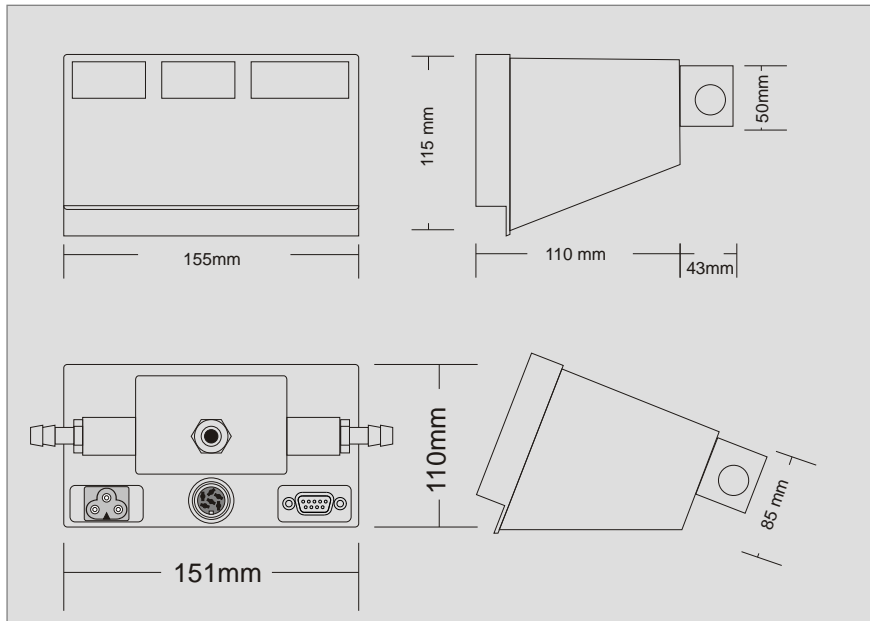
#### Your Benefits

- ▶ Efficient, precise fuzzy control
- ▶ High accuracy due to integrated continuous valves for vacuum and venting
- ▶ Silent operation
- ▶ Suitable for small volumina
- ▶ Patented automatic mode to approach and find boiling points in vacuum evaporators
- ▶ Chemically resistant ceramic sensor and polypropylen valves
- ▶ Programmable pressure decrease
- ▶ Pressure unit mbar, Torr
- ▶ Plug and Play: easy integration into existing appliances
- ▶ Clearly-structured display information for operation mode, actual pressure and setpoint
- ▶ Comfortable operation
- ▶ In manual operation mode you can intervene in pressure control quickly and anytime
- ▶ As desktop unit, for stand holder or panel mounting
- ▶ Worldwide use by switched mode power supply 95 - 265 VAC
- ▶ Serial interface for documentation and programming setpoints
- ▶ Software VacuGraph for saving and plotting measurements on PC



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### Technical Data

Measurement Principle	resistive
Materials in Contact with Vacuum	Al <sub>2</sub> O <sub>3</sub> -ceramic, PP, Viton
Measurement Range	1400 - 1 mbar (1050 - 1 Torr) admitted overload: 2 bar abs.
Resolution	1 mbar (Torr)
Accuracy	max. ±0.5% from scale (linearity / hysteresis / repeatability)
Measuring Rate	20 ms
Operating Temperature	0 ... 40°C
Storage Temperature	-10 ... +60°C
Power Supply	95 - 265 VAC 50/60 Hz
Power Consumption	max. 13 W
Electrical Connections	6-pin, female for external valve (24V, 5VA) for cooling water valve RS232; SubD 9pin, female
Recorder Output	0-10 VDC, resolution 4mbar
Vacuum Connection	G 1/4, hose nozzle 8/12mm (optionally DN16KF)
Display	3 displays with 7-segment LED's for mode/setpoint/actual pressure (3/3/4 digits)
Weight	1110 g

### Article Numbers

▶ **DC1S**  
Vacuum controller DC1S 1400-1mbar with integrated ceramic sensor and continuous valves for vacuum and venting, 95-265 VAC

▶ **DC1S/S**  
As above, for panel mounting

Accessories:

▶ **DC1SH2**

Stand holder

▶ **W0800002**

PC-cable RS232, 2 m

▶ **VGR**

VacuGraph Windows-Software