

## DC1

# Vacuum Controller / Distillation Controller Absolute Pressure 1400 to 1 mbar

The universal DC1 vacuum controller combines many years of experience from users and developers.

The compact unit has an integrated venting valve and provides power for an external vacuum valve and all necessary control outputs.

For secure and simple operation, clear instructions and information are displayed on the large format screen.



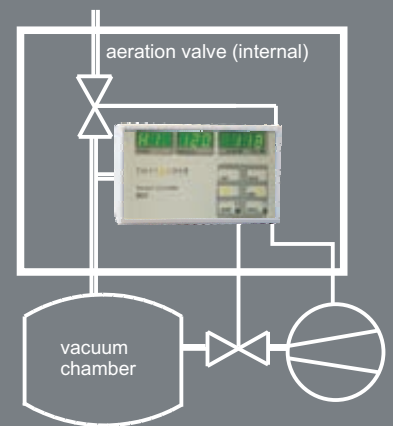
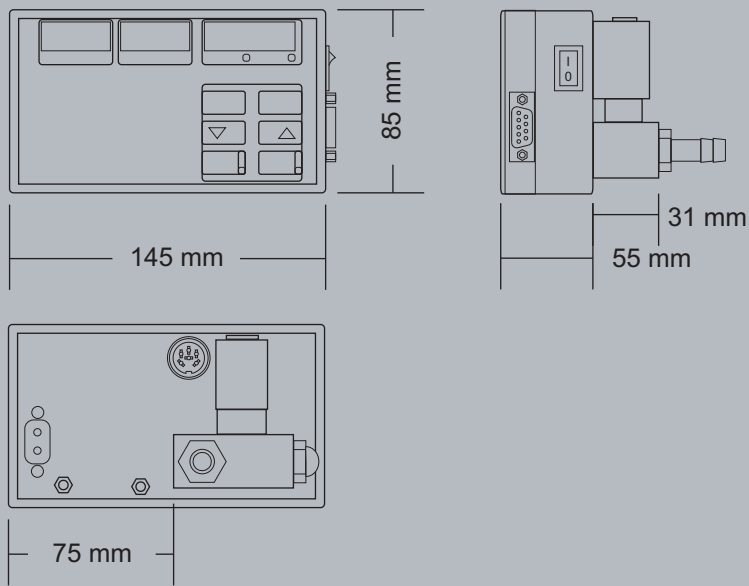
### Typical Applications

- Vacuum distillation
- Chemical process engineering
- Analysis instruments
- Workplaces with centralized vacuum supply
- Laboratory workplaces
- Automatic filtration

### Benefits

- Integrated ceramic sensor, chemically resistant
- Integrated venting valve
- Patented automatic mode to approach and find boiling points in vacuum evaporators
- Universal switched mode power supply 95 - 265 VAC
- Timer for distillation period
- Programmable pressure ramp down
- Connectors for vacuum valve and cooling water valve
- Manual or automatic operation mode
- Clearly structured display shows operation mode, actual pressure and set point
- Easy to use
- Manual operation mode allows intervention in pressure control quickly and at anytime
- Serial interface for process data collection
- VacuGraph software for saving and plotting measurements on a PC





## Technical Data

Display	3 displays with 7-segment LED's for mode / set point / actual pressure (3 / 3 / 4 digits)
Display Refresh Rate	2Hz (500 ms)
Sampling Rate	50 Hz (20 ms)
Measuring Principle	Piezo resistive, independent of gas type
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 overpressure 4 bar absolute
Accuracy	Max. ±0.5% full scale (linearity / hysteresis / repeatability)
Resolution	1 mbar (Torr)
Response Time	20 ms
Power Supply	95 - 265 VAC 50 / 60 Hz
Electrical Connections	6-pole, female for external valve (24 V, 5 VA) - vacuum valve - cooling water valve serial interface: SubD 9-pole, female
Power Consumption	Max. 13 W
Fuse	Thermic Fuse
Operating Temperature	0...+40 °C
Storage Temperature	-10...+60°C
Vacuum Connection	G 1/4 female thread, hose nozzle 8 mm
Protection Class	IP20
Weight	Approx. 550 g

## Product Codes

• **DC1/1**  
Vacuum controller, 1400 - 1 mbar, with integrated ceramic sensor and venting valve, 95 - 265 VAC

### Accessories:

• **DC1SH**  
Stand holder

• **DC1W**  
Vacuum valve, NW 2.2 mm, nickel coated, connection G1/4 and hose nozzle 8 mm, 1.5 m cable

• **DC1VCR**  
Vacuum valve, NW 4 mm, chemically resistant (PTFE), connection G1/4 and hose nozzle 8 / 12 mm, 1.5 m cable

• **VGR**  
VacuGraph Windows software

• **Wo800002**  
PC cable RS232, 2 m