

# Variomat Giga GS 1.1, control module for Variomat Giga DH stations

Article number: 8912500



## Features

Type	GS 1.1
Max. perm. operating temperature	90 °C
Max. perm. operating pressure	16 bar
Type of protection	IP 54
Electric connection	230V/50Hz
Max. electrical rated power	2.20 kW
Height	921 mm
Width	380 mm
Depth	477 mm
Weight	7.60 kg

## Description

### Variomat Giga Control Unit GS

For control and operation of the Variomat Giga pump controlled pressurisation system. Actuation of the corresponding Variomat Giga GH hydraulics (separate product), assembled and internally wired with the appropriate components so that it is fully functional. Constructed in compliance with DIN EN 12828 and the requirements of VDI 4708, with CE marking. The Control Touch operating unit with TFT colour display inclusive of communications electronics is integrated in a panel-type rugged plastic housing and mounted directly on the control unit with a horizontal alignment. An optional separate and vertical wall mounting plate at maximum three metres distance from the power electronics is possible. Communication electronics comprising:

- 4,3" resistive colour touchscreen for programming, operating documentation and monitoring as well as provision of help texts for all functions
- Two RS485 serial interfaces as data and/or communication interfaces
- Serial TTL-interface with two connection terminals for connection of 2 IO-boards
- Potential-free output for forwarding of the collective message
- Two electrically isolated analogue outputs e.g. for system pressure
- Input for the evaluation of contact water meters

- Slot for an HMS network module, one SD card, e.g. for data read-out, software updates, etc.

The power electronics are installed in a dedicated plastic control cabinet which is mounted directly below the operating unit. Power supply is via a main switch. Featuring in detail:

- Main switch on housing exterior
- Pump control
- Cable management for external connections
- Mounting slot for optional modules

Control unit completely piped and wired ready for connection according to VDE regulations. System connections by means of integrated shut-off valves.

Control Touch is a fully automatic and freely programmable microprocessor control with touchscreen operation, real-time clock, differentiating error and parameter memory, combined graphical and clear-text display of system pressure, tank level and all relevant operating and fault messages, functional diagram, signalling of the active operating mode, collective fault message, low water level, functioning of pump, overflow valve and make-up valve. Functioning of the pressurisation in the limits  $\pm 0.2$  bar including pump monitoring. Optimised system water degassing due to patented, fully-automatic overflow control with cycles for continuous, interval and run-on degassing. Controlled make-up, automatic interruption and fault message upon exceeding of the runtime and/or the number of cycles. Processing of the signal of a contact water meter for maximum volume limit and/or capacity evaluation of ion exchangers located in the make-up line. Documentation and control of the entire system in respect of the above mentioned parameters.