

# Odor Control Unit Type OSG 2000



## PRODUCT INFORMATION

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Worldwide**



## Odor Control Unit OSG 2000

description, case variants, functions

### Description

The odor control unit OSG 2000 enables the proportioning pump in an odorization system to be controlled by volume-proportional pulses, which are provided by a gas meter or volume corrector. The received volume pulses are scaled up or down and, if appropriate, are evaluated in order to generate the control pulses for the odorization pump in accordance with the required odorant concentration.

In the event that volume pulses fail, there is an internal pulse generator available and, for testing purposes, the proportioning pump can also be controlled manually by means of a manual button.

The OSG 2000 control unit is based on a stored-program controller in conjunction with an operator and display panel. Therefore, it is possible to modify or enhance functions optionally. In addition, the control system has a modular structure and can therefore be customized to meet the individual requirements of each odorization system. Thanks to ample space available in the various cases, additional modules for further functions can be retrofitted.

### Case variants

#### Wall-mounting enclosure (Type OSG 2000-W)

Available as door-type sheet steel housing with fastening lugs. Dimensions:

$W \times H \times D = 430 \times 235 \times 180 \text{ mm}$

#### 19" rack-mounting case (Typ OSG 2000-E)

Compact unit for control cabinet installation with the following dimensions:

$W \times H \times D = 3 \text{ HU} \times 150 \times 84 \text{ DU mm}$

#### Dezentraler Aufbau (Typ OSG 2000-M)

The operating unit and the control unit are installed at different locations. Dimensions:

Operating unit:  $W \times H \times D = 3\text{HU} \times 45 \times 84\text{DU mm}$

Control unit:  $W \times H \times D = 430 \times 130 \times 130 \text{ mm}$

(1 HU = 43,13 mm; 1 DU = 5,02 mm)

Power supply is also the same for all variants: 230 VAC/ 50 Hz.

Operation is always menu-driven via the keyboard of the operator and display panel with cleartext display.

### Functions

The control unit has standard functions and additional optional functions which can be individually supplemented depending on the plant design and customer requirements.

#### Standard functions:

- External volume pulses (the proportioning pump is controlled through volume-proportional pulses)
- Storage and processing of external volume pulses (when the maximum stroke frequency of the proportioning pump is exceeded)
- Addition or subtraction of external volume pulses (in the case of two gas routes)
- Evaluation of external volume pulses
- Internal pulse generator
- Automatic mode (changeover between internal and external pulses in accordance with parameter settings)
- Manual mode
- Delivery monitoring with alarm signalling
- Level monitoring with alarm signalling when odorant level falls below the limit value.
- Solenoid valve control system (in the case of injection intervals of more than 30 seconds, a solenoid valve in the injection pipe is shut until the next pulse is received.)
- 5 relay outputs
- MPI interface for transmitting process data

#### Additional functions (options):

- Calculation of the pump setting
- Calculation of the odorant concentration and the filling height through continuous level measurement
- Profibus interface
- Additional customized functions