

Gas Control Station

The Gas Control Station (GCS) from Dräger is a complete facility system with solutions for various medical gases, flow rates, control and alarm functions and equipment.



- Suitable gases: O₂, N₂O, CO₂, Air, N₂, Xe, He and Ar
- Flow rates of 35, 80 oder 120 m³/h
- GCS Basic with pressure gauge monitoring
- GCS Control with electronic control unit
- Consumption measurement/range determination
- Integrated Alarm Management
- Interface to external alarm systems (e.g. GLT)
- In accordance with DIN EN ISO 7396-1
- Upgradable platform concept

All components under the removable housing are easily accessible and designed so that all necessary service activities may be performed without interrupting the gas supply.

All GCS versions are pneumatically controlled. Thus even during a possible power failure, the gas supply remains ensured. The GCS Basic is equipped for monitoring the system pressures with contact manometers and the switch-over valve position can be queried via the zero-potential contacts.

The Gas Control Station platform concept enables adaptation to the respective gas supply requirements in the hospital. In addition to the three different flow performance levels with 35, 80 or 120m³/h, the control unit and the alarm system may be customized in different variations.

Upgrading from the performance level 80 to 120 m³/h or from Version GCS Basic to GCS control remains possible later on, even during active operation.

The GCS control is equipped with an electronic control unit that monitors, analyzes and displays the active supply side, the system pressures, the current flow and even the room temperature in a lighted display and in plain text. If a gas consumption option VoluCount™ is installed, the control unit displays the consumption trend of the previous week and the expected range of the active cylinder battery.



Gas Control Station
Example of an oxygen supply facility.



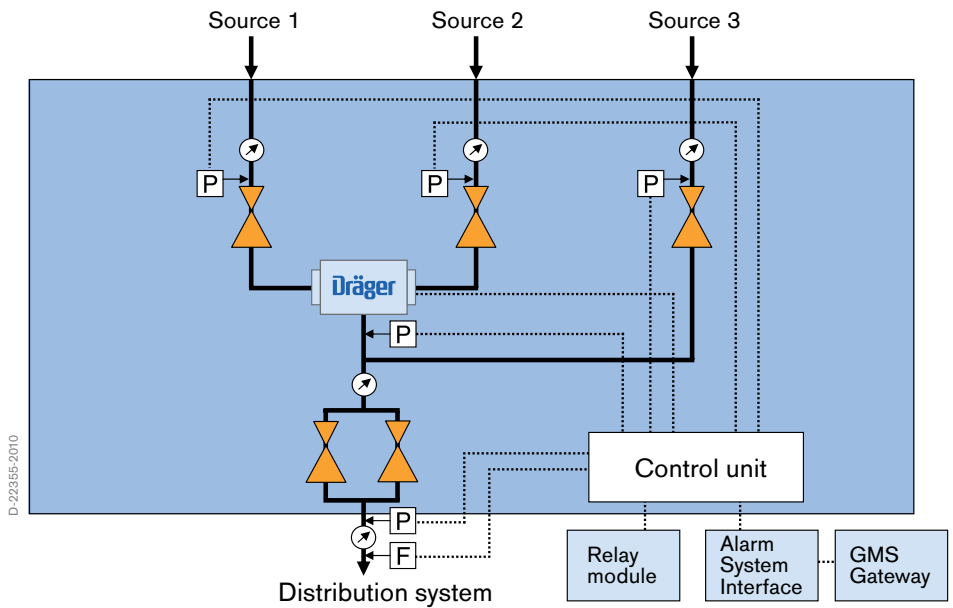
All operational GCS parameters are displayed centrally on the control unit.



The number of gas cylinders and the fluid gas container sizes may be individually adjusted.

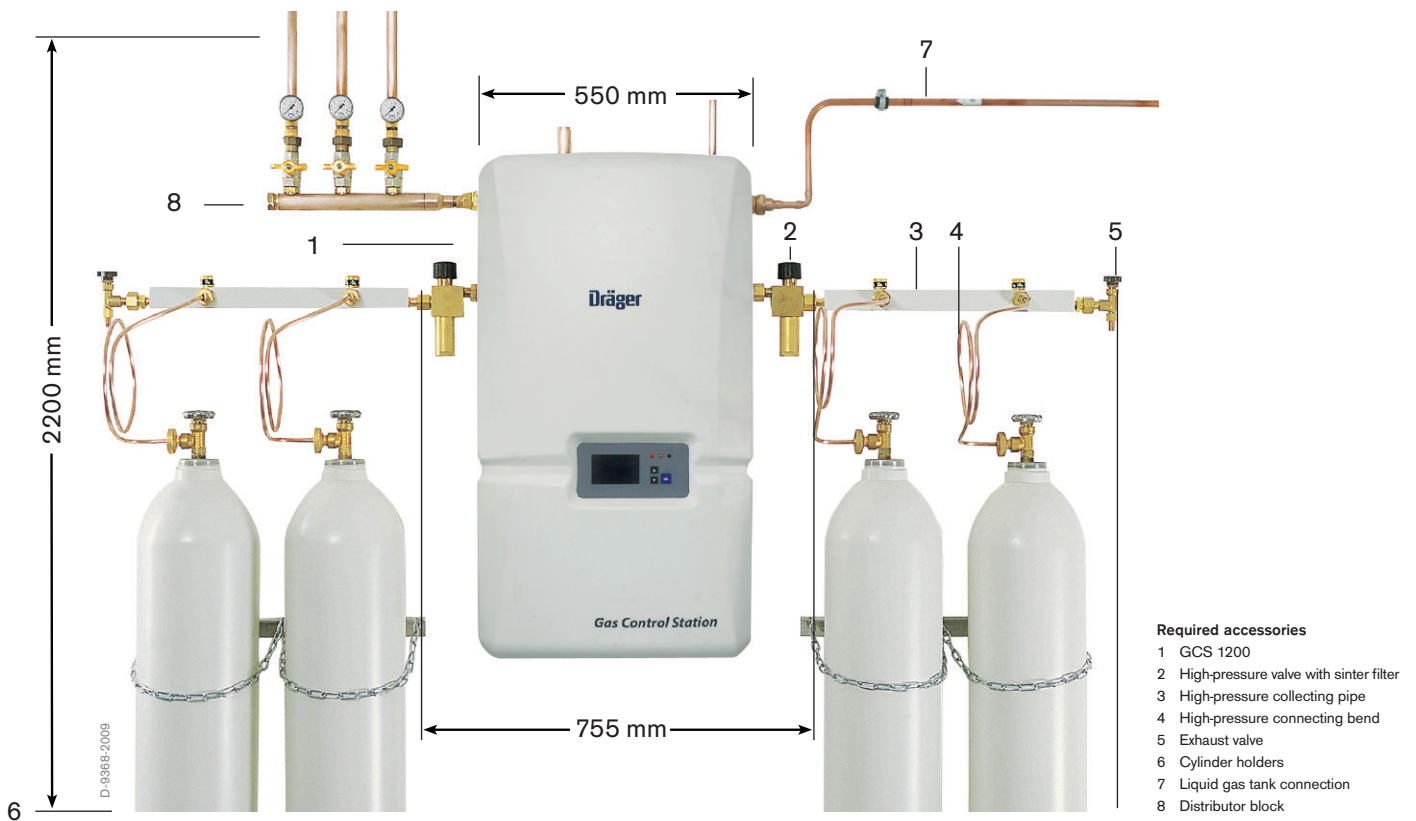
Alarms and operation messages are indicated on the control unit according to standard ISO 7396-1 with the respective alarm priority.

In addition, all messages and operational parameters may be transferred via an Alarm System Interface to the Dräger Alarm Management System. The information will then be displayed via separate light and text displays or the data is forwarded via a gateway to the existing hospital control system.



TECHNICAL DATA

	GCS 1200 C	GCS 800 C	GCS 500 C	GCS 1200 B	GCS 800 B	GCS 500 B	GCS 1201 C
Nominal flow rate	120 m ³ /h	80 m ³ /h	35 m ³ /h	120 m ³ /h	80 m ³ /h	35 m ³ /h	120 m ³ /h
Max. supply pressure				200 bar			
Liquid gas tank pressure				13,5 bis 17 bar			
Operating pressure		3,5 to 5,5 bar			5 bar		max. 17 bar
Power supply		100 to 240 V/AC			-		100 to 240 V/AC
Monitoring unit		Control unit			Pressure gauge		Control unit-
Potential-free contacts		Relay module			Terminal block		Relay module
Alarm interface	AMS	AMS	AMS	-	-	-	AMS
Dimensions (WxHxD)	550 x 1020 x 195	550 x 1020 x 195	550 x 1020 x 195	550 x 1020 x 195	550 x 1020 x 195	550 x 1020 x 195	550 x 1020 x 195
Order code	G 42156	G 42159	G 42162	G 42155	G 42158	G 42161	G 42164



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and Annex II.3 of Directive 93/42/EEC
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