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Area Control Unit Medical Gas Management Systems

The Area Control Unit monitors and controls medical gas and vacuum pressures for individual hospital departments. In addition, it offers a complete range of consumption monitoring and alarm management integration options.



Benefits

Area Control Units

Shut-off valve control unit for departmental control of gas distribution for maintenance or emergency situations

- Controls 1 to 5 gases with minimal space requirements
 - Emergency access button
 - Electronic pressure sensor
 - Component of the Dräger Alarm Management System
 - Optional integrated consumption monitoring
 - Digital display with integrated door opening alarm (optional)
 - Modular design for connection to external monitoring systems
 - Transmission of all alarm messages and pressure measurements
 - Compliance with EN ISO 7396-1
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Smart design

The Area Control Units can be integrated both technically and visually in any hospital department. The display unit can be individually labeled with the gas type and the department monitored. Pressure levels, operating and alarm signals can always be clearly identified.

Multifunctional use

From one to five gases and vacuum lines can be routed through the Area Control Unit, depending on your individual needs. The compact, stainless steel unit can be easily integrated into drywalls or mounted in or on conventional walls.

Use in case of emergency

In case of emergency, the door of the Area Control Unit can be opened by pushing in the emergency access button. The clearly organized valves can then be quickly and safely shut off. If the gas supply has been interrupted, the emergency inlets can be used to connect local external gas sources.

Reliable monitoring

Pressure sensors electronically monitor all gas pressures. Optical and acoustic alarm functions immediately indicate any malfunction. Pressures are displayed independent of the power supply.

Benefits

Flexible integration

The Area Control Unit can be equipped with various interface modules which can transfer the alarm and pressure measurements to an external monitoring system. Relay modules provide potential-free contacts for each alarm signal. The alarm system interface connects to the Area Control Unit into the Alarm Management System. Any alarm in any hospital department can then be displayed and all alarm signals and analog pressure measurements can be transferred to a central control system.

Optional consumption monitoring

The VoluCount option can be fully integrated into the Area Control Unit and connected to your Building Management System. The VoluCount option comes with your choice of calibrated sensors for air, O₂, N₂O, CO₂ and Surgical Air and enables detailed consumption monitoring of each gas. VoluCount allows individual adjustment of measurement ranges and alarm thresholds. Measurements can be transferred to external monitoring systems. The control display is accessible only to authorized persons.

Optional digital display

The option digital display allows the visualization of numerical values of the current pressures of all monitored gases on a backlit color display. In addition the modern display unit with integrated touch screen can visualize pressure alarms as well as numerical values of the current volume flows of all monitored gases. Thus you have an overview of all relevant information at any time.

An integrated door opening alarm with visual and audible signalling informs, if any unauthorized opening of the Area Control Unit takes place.

Effective cost control

Since VoluCount records the consumption of each gas, it allows you to control your costs more precisely, enabling you to pinpoint potential savings and plan ahead in greater detail. It is even easier to identify and correct any leakage problems.

Technical Data

Dimensions (mm):	Valve box base:	430 x 92 x 430 (B x W x H)
	Valve box top:	452 x 52 x 452 (B x W x H)
Medical gas piping	DN 15 (15 mm)	
Vacuum piping	DN 22 (22 mm)	
Power supply	230 V	
Components	<ul style="list-style-type: none"> - Medical gases (O₂, AIR, N₂O, CO₂) - Compressed air to run medical tools - Vacuum 	
Connectivity	<ul style="list-style-type: none"> - Potential-free contacts (relay modules) - Dräger Alarm Monitoring System - Display of pressure measurements on a building management system 	

Consumption monitoring

Sensor 50 range	up to 50 l/min
Sensor 450 range	up to 450 l/min
Consumption measurement accuracy	± 5 percent

Digital display

Size	4,3"
Typ	TFT-LCD Display
Resolution	480x272
Colors	16,7 Million

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