SENAMED
Teknik ve Tıbbi Sistemler San. ve Tic. A.Ş.



AURIX

Area Valve Service Units

The unit consolidates medical gas lines from wards, corridors, and operating areas into a single control panel, providing both monitoring and isolation functions. Each line is equipped with a dedicated manometer, low-pressure sensor, and medical gas shut-off valve. It can be configured with or without alarms according to project requirements.

Its windowed design allows all indicators and alarms to be viewed at a glance. Compatible with both recessed and surface mounting, it easily adapts to different architectural projects. Optional emergency power input can be added. Supports 1–6 gas lines, with project-specific gas combinations available. Constructed from DKP sheet and brass monoblock, the unit ensures long-lasting performance.



AURIX Service Unit

Supports 1–6 gas lines; panel width increases with the number of lines.
Each line includes manometer and pressure sensor for continuous monitoring.
Data can be sent to the Building Management System (BMS) for central monitoring.

Gas Lines
1–6 Gas Lines, Project-Specific Setup

Line Isolation
Each line can be isolated individually

Instant Emergency Supply
Maintains continuous gas flow

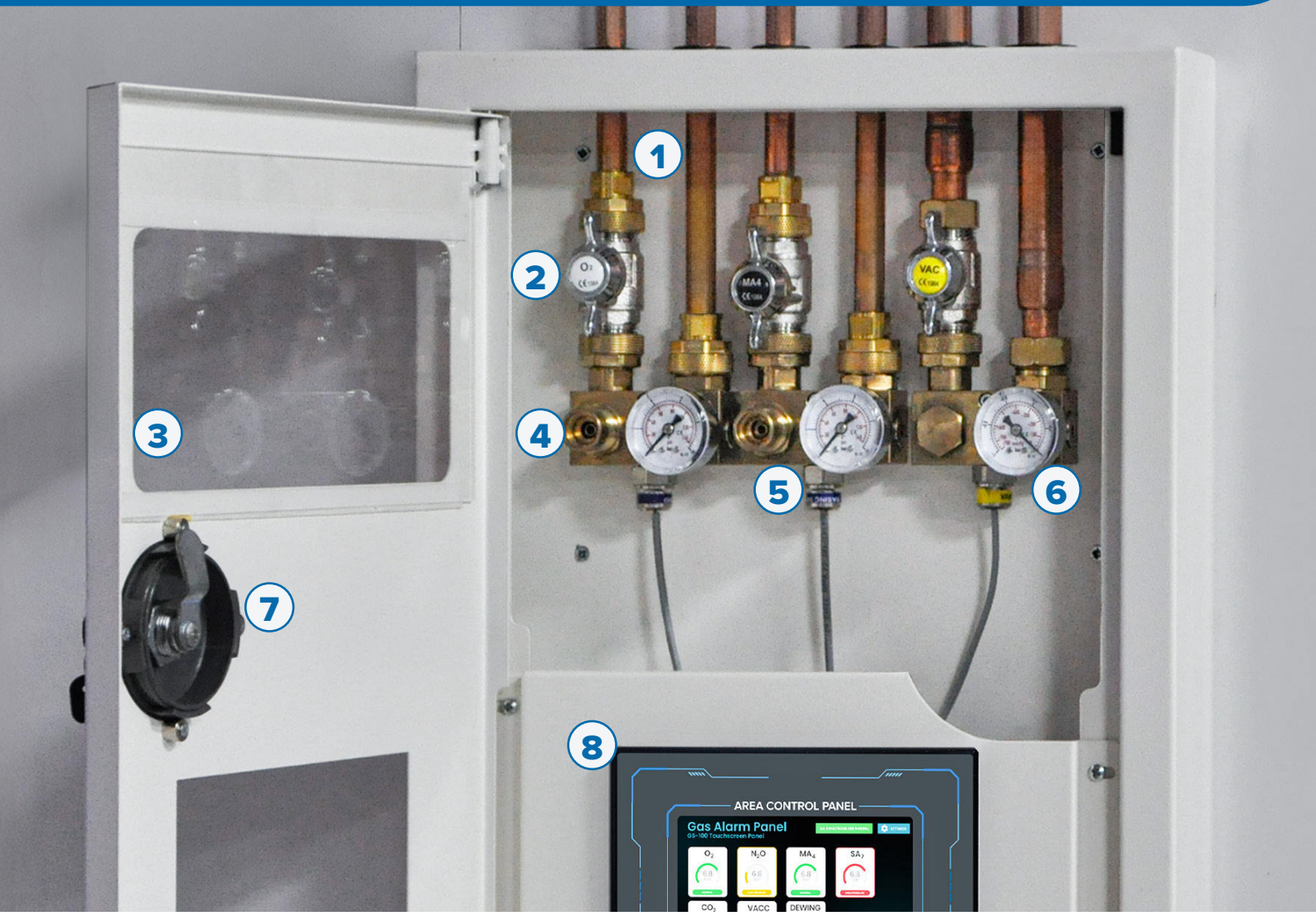
Installation Flexibility
Flush or Surface Mounting

Access Protection
Lock prevents unauthorized entry

Alarm Options
Touch Panel / Digital / No Alarm

Product Scope

The unit consists of three main sections: lower set, upper set, and alarm set. These sets together form the complete unit and can also be supplied separately if required. The upper set includes mechanical components such as the cover and lock, while the lower set contains the main components of the medical gas system including manometers, low-pressure sensors, and shut-off valves.



1 · Gas Inlet/Outlet

Allows medical gas to be received from the main line, monitored, and delivered to the relevant line.

2 · Valve

Controls gas flow and enables line isolation.

3 · Observation Window

Manometers, gas pressure, and alarm indicators can be viewed at a glance. Made of polycarbonate.

4 · Nist Supply Inlet

Allows connection of an external gas source for uninterrupted supply to the line in emergencies.

5 · Pressure Sensor

Each gas line's pressure is monitored individually by sensors, with data sent to the alarm panel.

6 · Manometer

Displays the line pressure status in real time.

7 · Emergency Push Lock

It prevents unauthorized access with a lock; opens quickly in emergencies by tapping the panel.

8 · Digital Alarm

Triggers sound and visual alarms when limits are exceeded, sending a signal to the master alarm.

Application Areas

Primarily used in hospitals, clinics, and operating rooms, as well as wards, corridors, intensive care units, and emergency lines, for safe monitoring and control of medical gas systems. Compatible with both recessed and surface mounting, it easily adapts to various infrastructure and architectural projects.



Flush Mounted



Surface Mounted





Touchscreen Alarm Unit

Continuously monitors gas line pressures, in real time. With all lines to be easily tracked on a single screen.
Detailed settings and information are clearly displayed on the 5” touchscreen.
Provides a sleek, modern appearance and can be configured to meet project requirements.

Touchscreen Panel
Monitors gas pressure in detail.

Sleek & Modern Design
Minimal and technological approach.

Advanced Configuration
Detailed settings via the display.

Sensor Configuration
1–6 sensor, selectable as needed.

Authorized Access
Password restricted to personnel.



7-Segment Digital Alarm Unit

Monitors gas line pressures via LED indicators Settings and configurations are made using basic buttons on the 7-segment digital display. Provides reliable performance, a cost-effective solution, and can be configured to meet project requirements.

LED Indicator Panel
Pressure status is displayed via LEDs.

Cost-Effective Solution
Practical usage with 7-segment panel.

Button-Controlled Interface
Easy configuration via panel buttons.

Sensor Configuration
1–6 sensor, selectable as needed.

Authorized Access
Password restricted to personnel.

MODEL	AURIX
General Features	
Supply Voltage	220 V, 50 Hz.
Operating Temperature	0°C – 40°C
Relative Humidity	10 – 95 %
Number of Lines (Max.)	1 – 6 Lines
Medical Gases	Oxygen (O_2) – Nitrous Oxide (N_2O) – Medical Air (MA4) Surgical Air (SA7) – Vacuum (VAC) – Carbon Dioxide (CO_2) – Nitrogen (N_2)
Configuration	Number of lines and gas combination are project-specific
Max. Inlet Pressure	10 Bar
Operating Pressure	0 – 8.5 Bar (Compressed Gas) 0–(-1) Bar (Vacuum)
Pressure Sensitivity	0.1 Bar
Technical Features	
Inlet/Outlet Pipes	Top Entry, Medical Copper Pipe
Pipe Diameter	Ø15 mm (Pressure Lines) Ø22 mm (Vacuum Line)
Pressure Gauges	0–10 Bar
Vacuum Gauge	0–(-1) Bar
Emergency Supply	Gas-specific NIST connections (Project-specific gas outlet option)
Line Control	Ball Valve
Monitoring	Pressure Gauge – Vacuum Gauge – Sensor
Mechanical Features	
Material	CR Steel / RAL 9010 Electrostatic Powder Coated
Installation	Flush Mounted / Surface Mounted
Recommended Installation Height	1550 – 1650 mm from Floor Level (Panel Center)
Digital Alarm	
Dimensions (H×W×D)	128 × 178 × 68 mm
Control	Microprocessor Controlled Electronic System
Digital Alarm Display	7-Segment Digital Display
Touchscreen Alarm Display	5" Touchscreen Display
Sensor Type	Pressure and Vacuum
Alarm Function	High/Low Pressure Alarm, Empty Gas Cylinder, Intermediate Pressure Alarm, System Changeover Alarm
Alarm Notification	Audible and Visual Warning + Notification to Master Alarm Panel
Standards	
Management Standards	2007/42/EC
Quality Management System	EN ISO 13485:2016 — EN ISO 9001:2015
Electrical Safety and Performance	EN 60601-1:2009 — EN 60601-1-2:2011 — EN 60601-1-8:2008
Risk, Usability and Labeling	EN ISO 14971 :2012 — IEC62366-1:2015 EN ISO 15223-1:2016 — EN 1041+A1:2011

Technical specifications are subject to change without prior notice. Images are for illustrative purposes only and may vary by model.

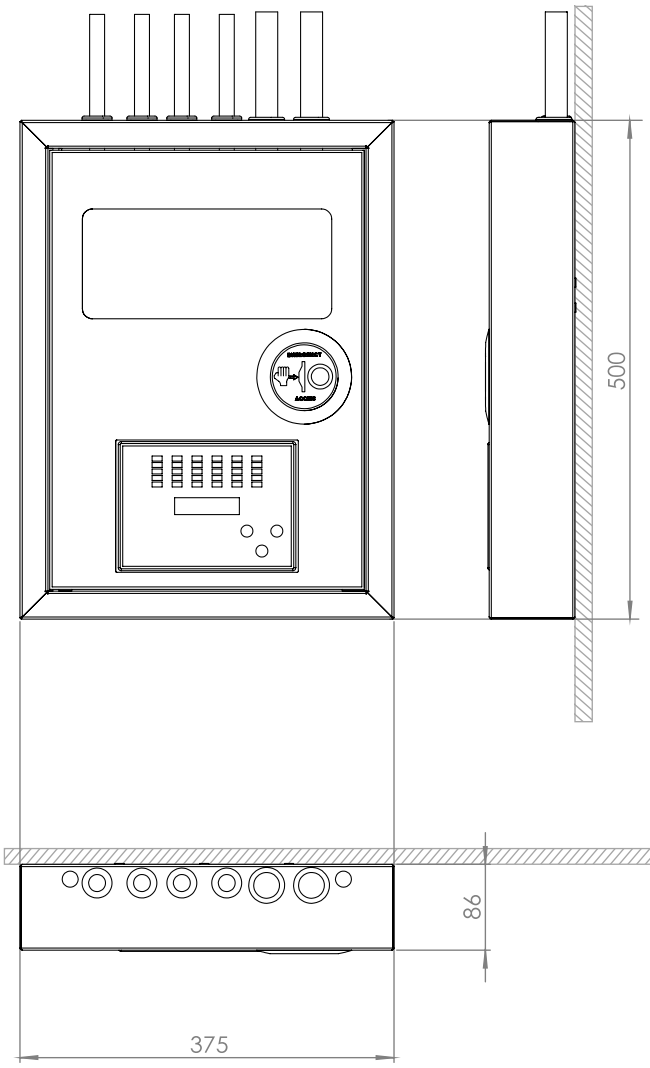
DIMENSIONS (mm)

Unit Type	Mounting	Height	Width	Depth	Weight
1 – 3 Gases	Surface Mounted	500	375	86	11 kg
1 – 3 Gases	Flush Mounted	500	400	81.20	11 kg
4 – 5 Gases	Surface Mounted	500	545	86	15 kg
4 – 5 Gases	Flush Mounted	500	515	81.20	15 kg
6 Gases	Surface Mounted	500	630	86	17 kg
6 Gases	Flush Mounted	500	600	81.20	17 kg

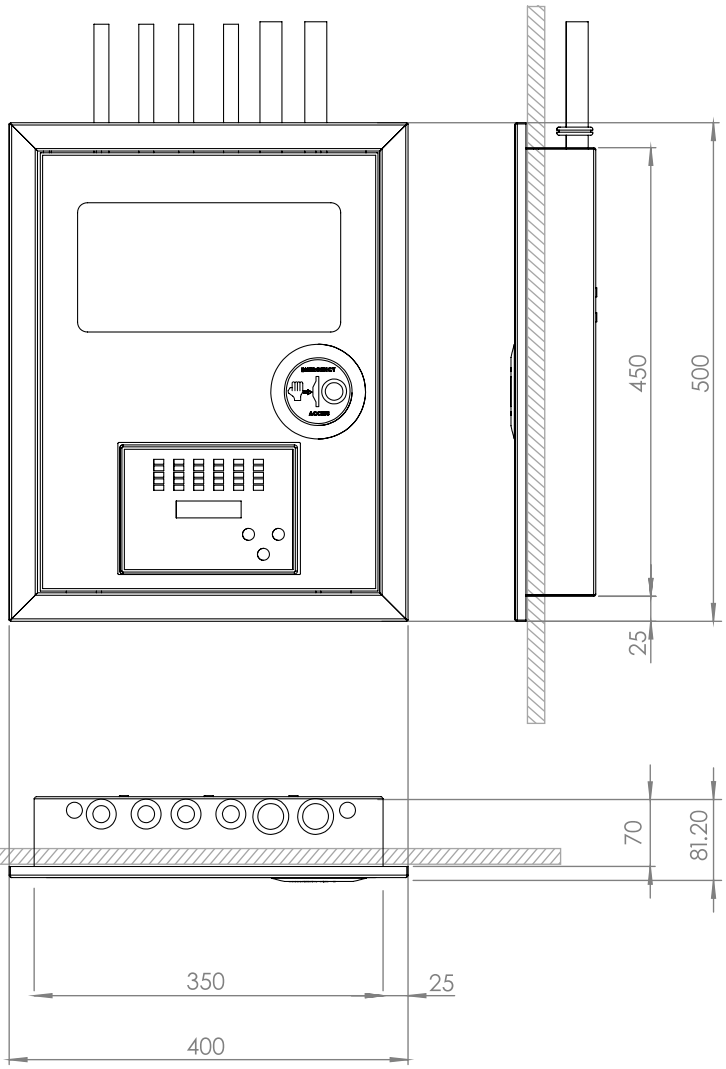
Standard dimensions are provided. For project-based, high-volume production, optimized dimensions can be applied depending on the number of gases. Weight may vary depending on the gas quantity and internal equipment.

TECHNICAL DRAWINGS

1 – 2 – 3 Gas Control Panel – Surface Mounted



1 – 2 – 3 Gas Control Panel – Flush Mounted



Other gas configurations share similar design principles.
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