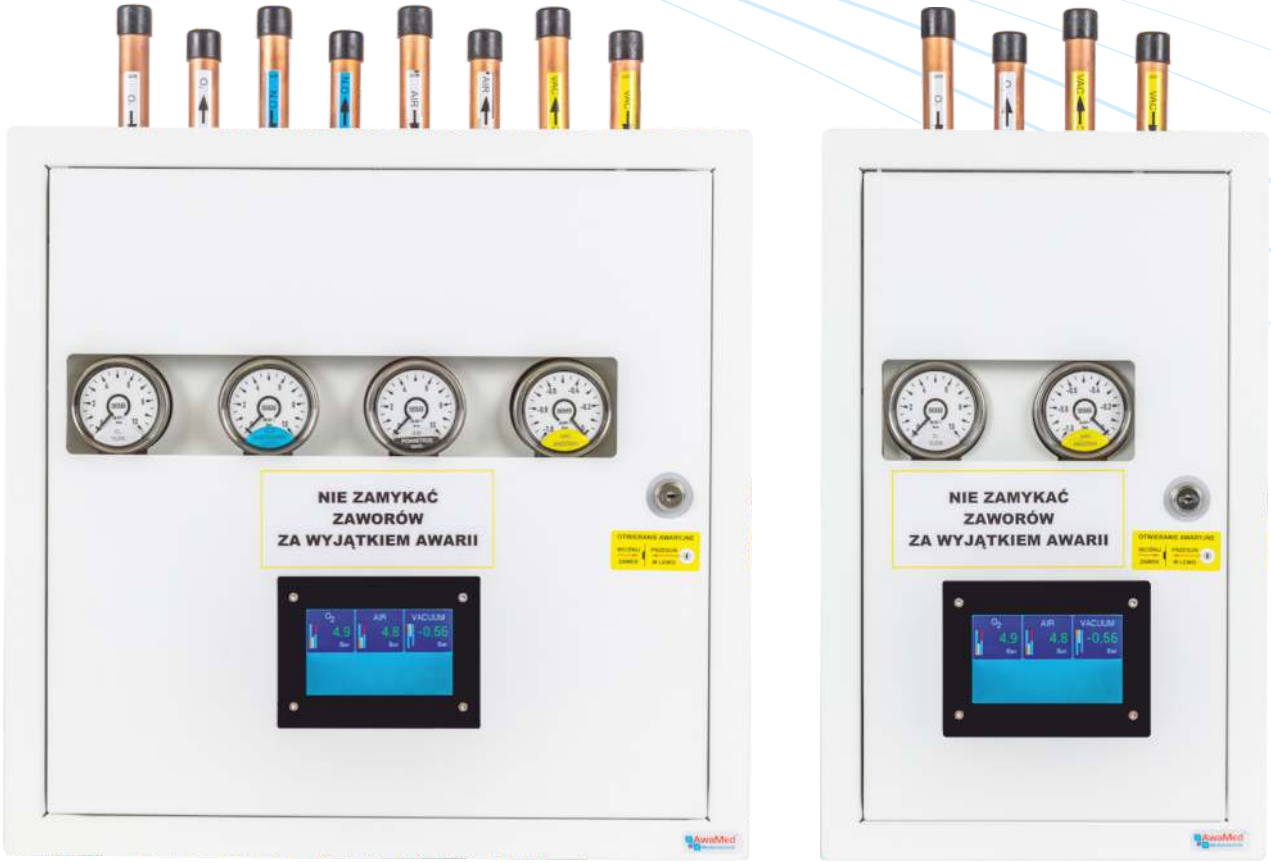
AwaMed®
Medizintechnik

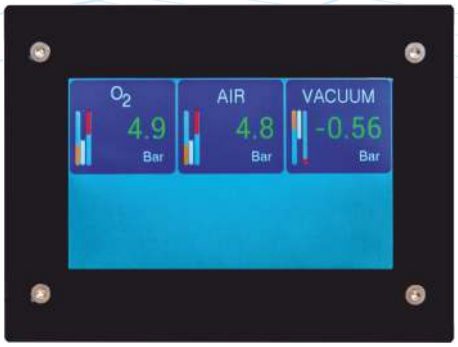


MEDICAL GAS ALARM PANELS
AREA VALVE SERVICE UNIT (AVSU)
INFORMATION POINTS

MEDICAL **GAS ALARM PANELS**

For medical sources keeps you informed of the pressure of medical gases, monitors the pressure that is too low and too high, and reports the fill status of the gas cylinders. It is an effective system for informing medical personnel about a failure in the transport of medical gases in the installation. It works with pressure sensors and provides information about exceeding set limits by means of an alarm system. The indicator is mounted directly on the door. It shall be placed in the operating rooms and in the rooms of the staff responsible for monitoring the state of gases (on-call).

menu



gas level

SPECIFICATIONS:

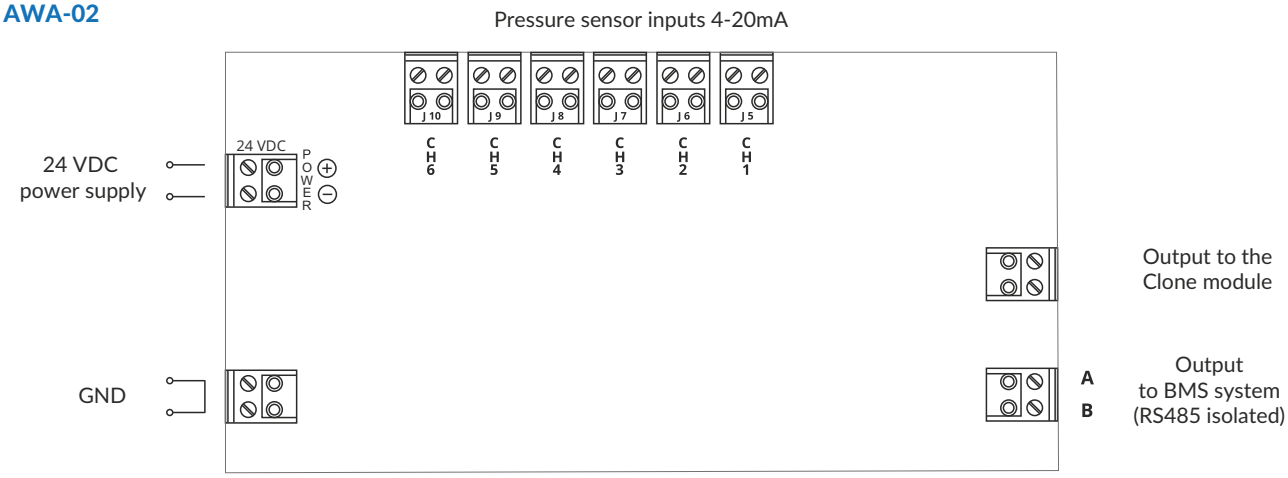
It has a colour LCD touch-screen display that shows the individual gas pressure and alarm limits that, if exceeded, trigger a visual and acoustic alarm. Use the touch screen display to select the type of gas to be monitored and set the alarm limits to the upper and lower limits.

- provides information about an emergency situation in visual, light and acoustic form,
- continuous operation in 24h/7 mode,
- standard digital input,
- menu in Polish, English, Ukrainian
- PIN protection,
- supply voltage 24VDC,
- 10mA current consumption during alarm up to 45mA,
- the unit is optionally equipped with an interface for connection to the BMS system,
- data can be transferred to external monitoring devices.

The indicator has up to six monitoring channels to set up.
The appliance is manufactured in two versions:
• MASTER fitted to Area Valve Service Unit (AVSU),
• CLONE flush-mounted or surface-mounted.

Pressure sensors are supplied to the MASTER display. With a two-wire connection The communication line is connected to CLONES (maximum 4 pcs). DEPENDING on the object's topology, CLONES can be connected in a star arrangement (all the Clones connected to the Master display), cascade (from the main display to the Clone and each successive Clone is connected to the previous Clone) and mixed (part of the Clones connected to the main display and part connected to the previous Clones).

CONNECTION DIAGRAM OF THE MODULE SSGM AWA-02



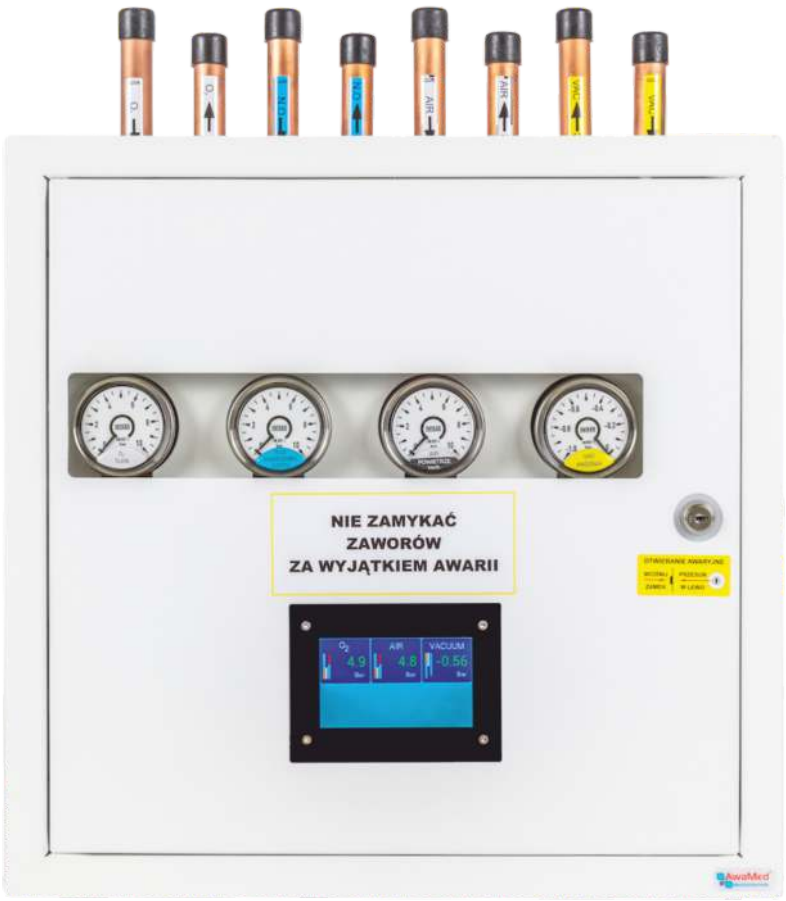
AwaMed® Medizintechnik

AREA VALVE SERVICE UNIT (AVSU)

Allows you to close and open the medical gas flow, continuously monitor the pressure, and alert you to medical gas transmission system errors. The control and valve boxes are fitted in front of the operating rooms, the reanimation rooms, intensive care rooms and general care units. They are most often placed in corridors, at wire junctions. The box may be equipped with a gas alarm which provides a visual and audible alarm in the event of a pressure increase or decrease in the installation. The control of the gas status in a zone gives a quick response in the event of a fault.

SPECIFICATIONS:

- it is made of galvanized steel, powder-coated,
- a door with a view to the pressure gauges,
- Emergency Access via simple push mechanism with no serviceable items required



TECHNICAL SPECIFICATIONS:

- nominal working pressure for: O2, AIR, VAC, N2O, CO2 is 5 bar (0.5MPa),
- nominal working pressure for AIR motor is 8bar (0.8MPa),
- nominal working pressure for VAC is -0.6bar (-0.06MPa),
- supply voltage for 24V DC gas status alarm indicator,
- technical NIST type fitting connector for all gas types including Vacuum.

EQUIPMENT

- gas blocks,
- ball valves,
- manometers / vacuum gauges,
- pressure sensors, vacuum sensors,
- emergency gas fittings,
- copper pipes,
- gas alarm indicators, located inside the box or outside the box.

AREA VALVE SERVICE UNIT (AVSU)

1. Copper pipes
2. Shut-off valves
3. Pressure gauges
4. Technical connectors
5. Cover
6. Electronic module
7. Indicator cover

Shut-off valves

Pressure gauges

NIST outlets

NIST outlet (technical connectors)

oxygen | carbon dioxide | nitrogen | compressed air | vacuum

Shut-off valves

Area Valve Service Unit (AVSU) are **individually configured** according to the needs of the ordering person who decides:

1 GAS ENTRY AND EXIT METHOD:

- Top-bottom MGD
- Top-top MGG
- Bottom-top MDG

2 NUMBER AND TYPE OF MEDICAL GASES:

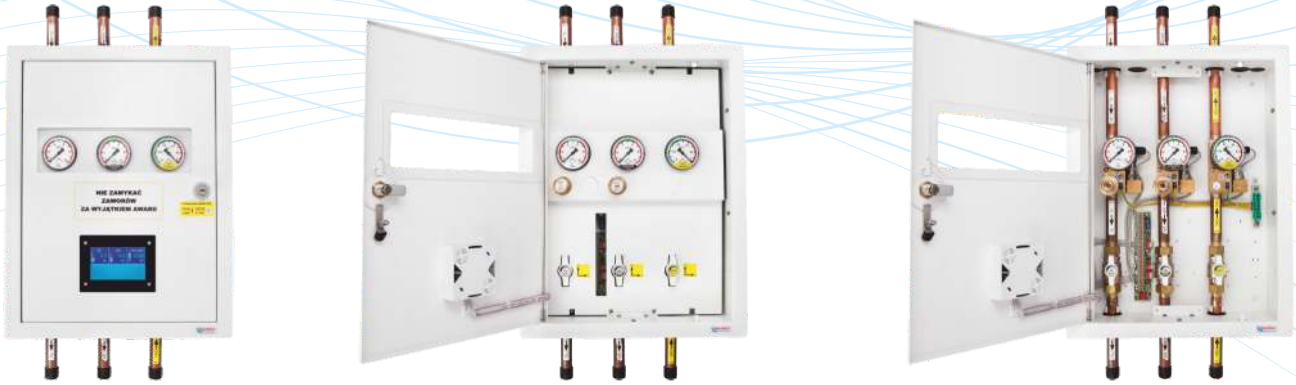
- oxygen O_2
- nitrous oxide N_2O
- compressed air AIR5
- compressed air AIR8
- vacuum VAC
- carbon dioxide CO_2
- AIR MOTOR M

3 EQUIPPED WITH MEDICAL GAS ALARM PANELS

Valve and control box is a class IIb medical device. Meets the highest standards of performance and medical requirements based on the PN-EN ISO 7396-1 series of standards.

AwaMed® Medizintechnik

EXAMPLE OF
AREA VALVE SERVICE UNITS (AVSU)



Area Valve Service Unit (AVSU) for 3 gases top-bottom

Area Valve Service Unit (AVSU) for 3 gases top-top

AREA VALVE SERVICE UNIT (AVSU) INPUT TOP - OUTPUT BOTTOM	INDEKS
For 6 gases (oxygen, nitrous oxide, compressed air, vacuum, carbon dioxide, AIR MOTOR)	MGD ONAVCM
For 5 gases (oxygen, nitrous oxide, compressed air, vacuum, carbon dioxide)	MGD ONAVC
For 4 gases (oxygen, nitrous oxide, compressed air, vacuum)	MGD ONAV
For 3 gases (oxygen, nitrous oxide, compressed air)	MGD OAV
For 2 gases (oxygen, nitrous oxide)	MGD OV
For 1 gases (oxygen)	MGD O

AREA VALVE SERVICE UNIT (AVSU) INPUT TOP - OUTPUT TOP	INDEKS
For 6 gases (oxygen, nitrous oxide, compressed air, vacuum, carbon dioxide, AIR MOTOR)	MGG ONAVCM
For 5 gases (oxygen, nitrous oxide, compressed air, vacuum, carbon dioxide)	MGG ONAVC
For 4 gases (oxygen, nitrous oxide, compressed air, vacuum)	MGG ONAV
For 3 gases (oxygen, nitrous oxide, compressed air)	MGG OAV
For 2 gases (oxygen, nitrous oxide)	MGG OV
For 1 gases (oxygen)	MGG O

INFORMATION POINTS

The information points have the same function as the Area Valve Service Units (AVSU), they do not have a Medical gas alarm panels

EQUIPMENT:
- indicating pressure gauges
- shut-off valves
- wall-mounted or flush-mounted enclosure

Information point for 3 gases top-top

Information point for 2 gases top-top

INFORMATION POINT INPUT TOP - OUTPUT BOTTOM	INDEKS
For 6 gases (oxygen, nitrous oxide, compressed air, vacuum, carbon dioxide, AIR MOTOR)	PGD ONAVCM
For 5 gases (oxygen, nitrous oxide, compressed air, vacuum, carbon dioxide)	PGD ONAVC
For 4 gases (oxygen, nitrous oxide, compressed air, vacuum)	PGD ONAV
For 3 gases (oxygen, nitrous oxide, compressed air)	PGD OAV
For 2 gases (oxygen, nitrous oxide)	PGD OV
For 1 gases (oxygen)	PGD O

INFORMATION POINT INPUT TOP - OUTPUT TOP	INDEKS
For 6 gases (oxygen, nitrous oxide, compressed air, vacuum, carbon dioxide, AIR MOTOR)	PGG ONAVCM
For 5 gases (oxygen, nitrous oxide, compressed air, vacuum, carbon dioxide)	PGG ONAVC
For 4 gases (oxygen, nitrous oxide, compressed air, vacuum)	PGG ONAV
For 3 gases (oxygen, nitrous oxide, compressed air)	PGG OAV
For 2 gases (oxygen, nitrous oxide)	PGG OV
For 1 gases (oxygen)	PGG O

AwaMed® Medizintechnik

© AwaMed - Medizintechnik
first edition

AwaMed - Medizintechnik Arkadiusz Warzyński
ul. Zeusa 1 • 72-006 Mierzyn • www.awamed.pl
awamed@awamed.pl tel. +48 91 48 76 849

20 YEARS
of experience

200
products

CE 0197

A POLISH BRAND