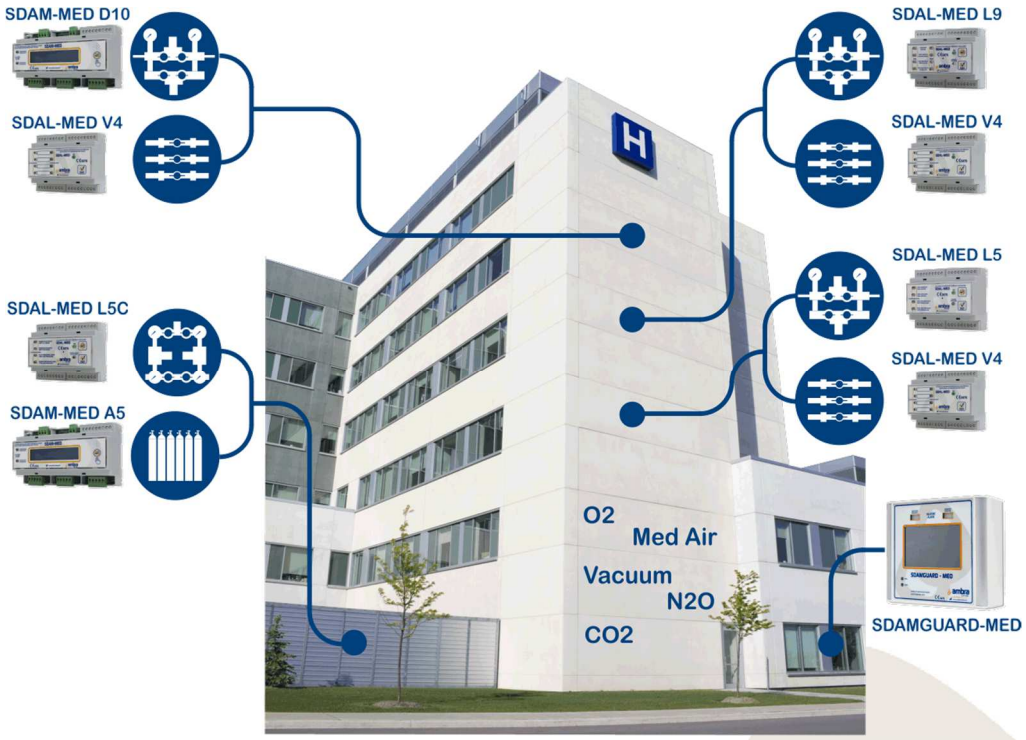
SDAMNet Plus

Alarm and measurement monitoring system for medical gases applications



System gives notification of clinical alarms in storage areas and pipeline distribution systems for medical gases (O2, Med Air, N2O, CO2, Vacuum).

Local units are distributed in the hospital ward at each floor and in the gas storage area to monitor alarms and measurements.

The **SDAMNet Plus** system can include following units connected in local network:

SDAL-MED L5 5 digital inputs for ON/OFF pressure sensors (min. / max. pressure switches);
SDAL-MED L5C 5 digital inputs for ON/OFF pressure sensors (min. / max. pressure switches);
SDAL-MED L9 9 digital inputs for ON/OFF pressure sensors (min. / max. pressure switches);
SDAL-MED V4 4 digital inputs for NAMUR or ON/ OFF sensors detecting the valve status (open/closed);
SDAM-MED A5 5 analog inputs for 4-20 mA pressure transducers (min. / max. alarm and current value);
SDAM-MED D10 10 digital inputs for ON/OFF pressure sensors (min. / max. pressure switches);
SDAM-MED R Repeater for SDAM-MED D10 or SDAM-MED A5 unit;

All alarm units comply with ISO 7396-1 and EN 60601-1-8

A Windows software tool allows to set all the operating parameters of SDAM-MED and SDAL-MED units by a PC: input parameters, input ID, range and alarm thresholds (analog inputs only), input operation NC / NO (digital inputs only), alarm priority, output relay operation and destination area. The same tool also allows to set the destination area of SDAL-MED units and the input parameters of the SDAL-MED V4.

SDAM-MED and SDAL-MED units are supplied for wall and flush box mounting integration.

SDAM-MED and SDAL-MED units can communicate in the same RS485 local network **SDAMNet Plus** by wired or wireless connection (LoRa radio); all data can be collected by one or more SDAMGUARD-MED units for central monitoring.

The gateway A2M Converter allows to transfer all the data that pass through the local network **SDAMNet Plus** towards third party interfaces for hospital alarm system (e.g.: SCADA) by ModBus protocol (read only).

The server CrioSystemSupervisor (CSS) allows remote monitoring of the **SDAMNet Plus** units. The client CSS user interface is available on the web for PC, smartphone or tablet by WebAPP, without any download or user-level installation.

Data transfer between peripheral units and platform occurs by peripheral modem MOD-COM using GPRS mobile network and TCP-IP protocol. This solution allows coverage throughout the international territory, ensures very high reliability of data communication and low cost of connectivity.

Receipts receive automatic alert notifications by phone calls and voice messages, SMS, e-mail or dedicated notification APP designed by AMBRA Sistemi. Receipts can have access to WebAPP CSS and get all the information available concerning SDAM-MED and SDAL-MED units in real time. Every access is protected by login and password.

SDAMNet Plus remote monitoring supplies the following advantages:

- ✓ More cost-effectiveness and prompt technical support
- ✓ Fuel and motorway tolls economy
- ✓ Avoid technical interventions for uncritical or false alarms
- ✓ Increased the safety of hospital plants