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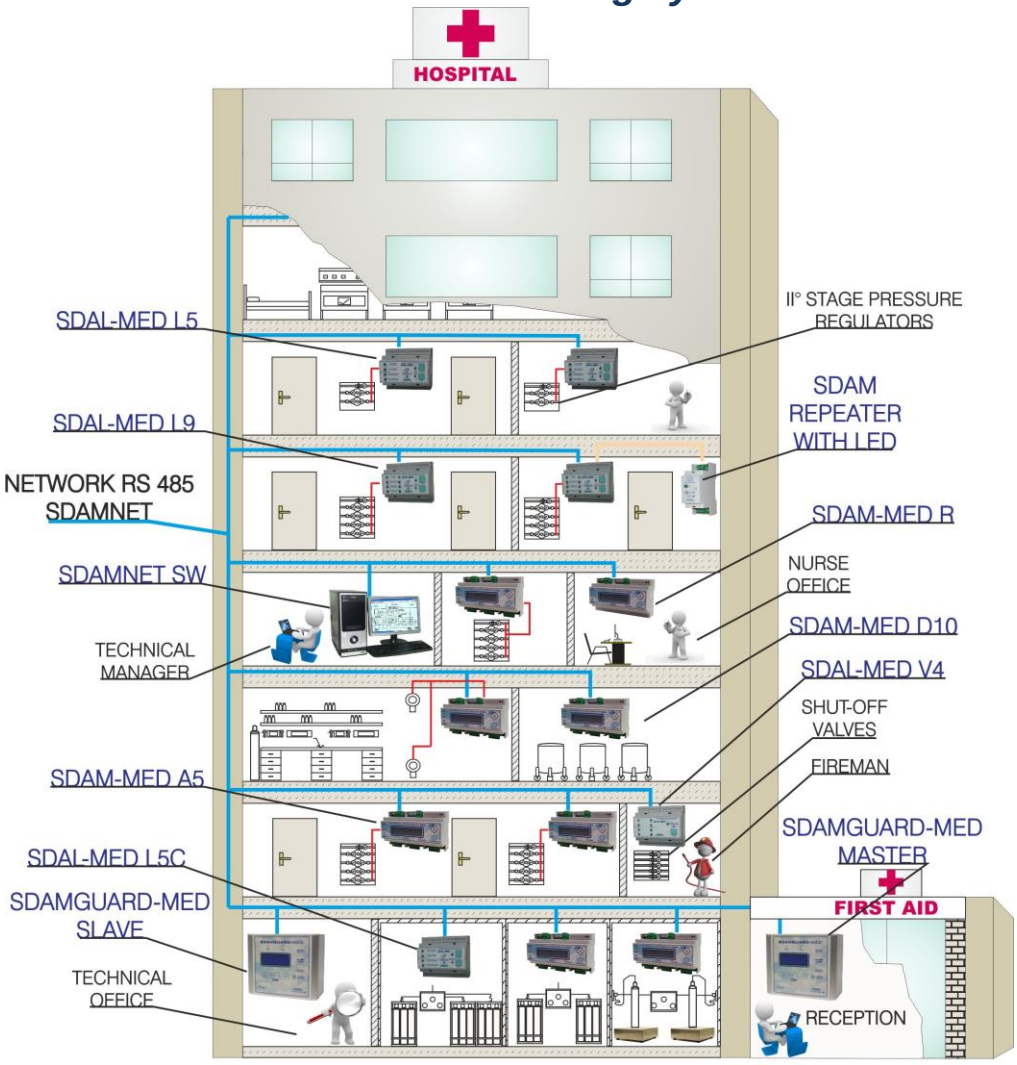
SDAMNet

Alarms and measurements monitoring system on local network



This system solves clinical alarms notification problems in storage plants/medical gas pipeline distribution systems (O2, N2, Air, N2O, CO2, Vacuum).

The peripheral units SDAM-MED and SDAL- MED, are installed into hospital compartments and constitute the floor alarm monitoring system in hospitals:

The system is composed by:

SDAL-MED L5	no.5 digital inputs for ON/OFF sensors (min. / max. pressure switchers);
SDAL-MED L5C	no.5 digital inputs for ON/OFF sensors (min. / max. pressure switchers);
SDAL-MED L9	no.9 digital inputs for ON/OFF sensors (min. / max. pressure switchers);
SDAL-MED V4	no.4 digital inputs for position valve sensors NAMUR or ON/ OFF;
SDAM Repeater with LED	Repeater of alarm status for SDAL-MED L5-L5C-L9 units***;***
SDAM-MED A5	no.5 analogue inputs for 4-20 mA pressure transducers;
SDAM-MED D10	no.10 digital inputs for ON/OFF sensors (min. / max. pressure switchers);
SDAM-MED R	Repeater of SDAM-MED D10 and SDAM A5 in network;
SDAM Shut-off A5	no.5 analog inputs 4-20mA, gas supply control (see chapter Control Process);
SDAM Shut-off D10	no.10 digital inputs ON/OFF, gas supply control (see chapter Control Process);

All alarm units are in accordance with European Standard:
ISO 7396-1 and EN 60601-1-8

SDAM-MED units are programmed by a P.C.; it is possible to set the digital and the analogue inputs parameters, as: input identifications, contact types (for digital inputs only), ranges of measurement and alarm thresholds (for analogue inputs only), alarm priority, output relay configuration and identification area.

SDAL-MED units are programmed by a P.C. too, but it's just possible to programme the identify string area; inputs parameters are already set and fixed, also following their location logic; only **SDAL-MED V4** allows programming the inputs parameters.

SDAM-MED and **SDAL-MED** units are supplied for wall or for flush mounting.

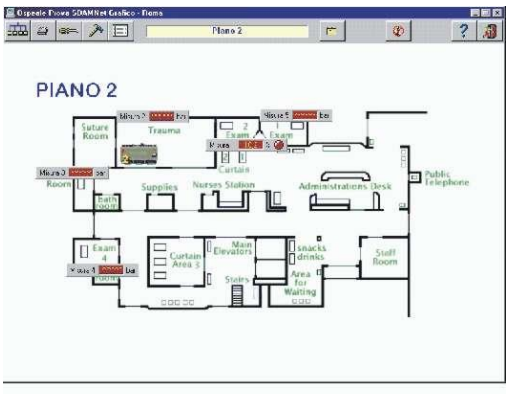
The units can be connected by the **SDAMNet** local network (RS485) to one or more **SDAMGUARD-MED** units and/ or to a P.C. to create a central monitoring guard station.

On the P.C. shall be installed the monitoring software **SDAMNet SW**; with the software licence is supplied the interface converter USB/RS485 for the connection of P.C. to the RS485 local network.

Two different versions of the software are available:

- ***SDAMNet_Lite SW*** base monitoring software

- ***SDAMNet SW*** Graphic monitoring software



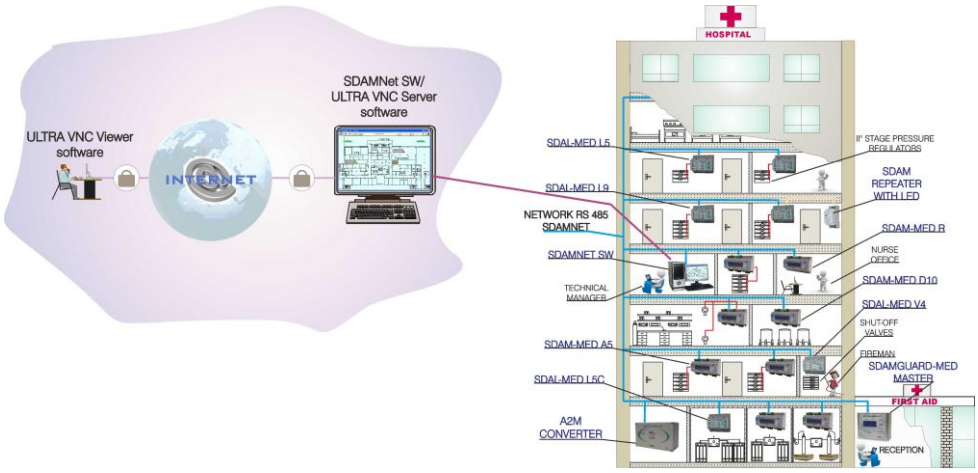
Both versions have the following functions:

- Cyclic monitoring of **SDAM-MED** and **SDAL-MED** peripherals surveying alarms, faults and measurements;
- Acoustic and visual signals notifying alarms;
- Memory of events, measurements and faults;
- Network **SDAM-MED** and **SDAL-MED** peripherals programming;
- Statistic elaborations of alarms;
- Statistic elaborations of measurements;
- Possibility to send SMS to external operators.

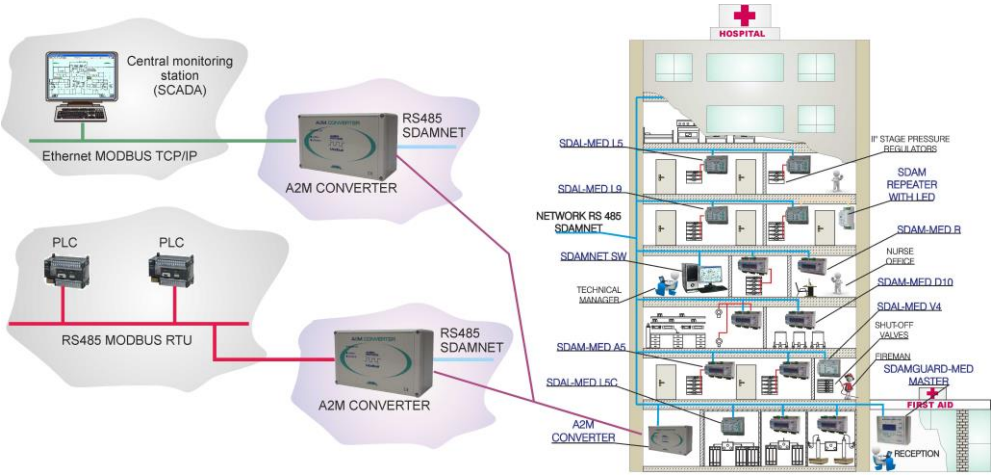
SDAMNet local network can be connected to a MODBUS network by a transcoding module, like **A2M Converter**.

TYPICAL APPLICATIONS FOR SDAMNET NETWORK REMOTE MONITORING

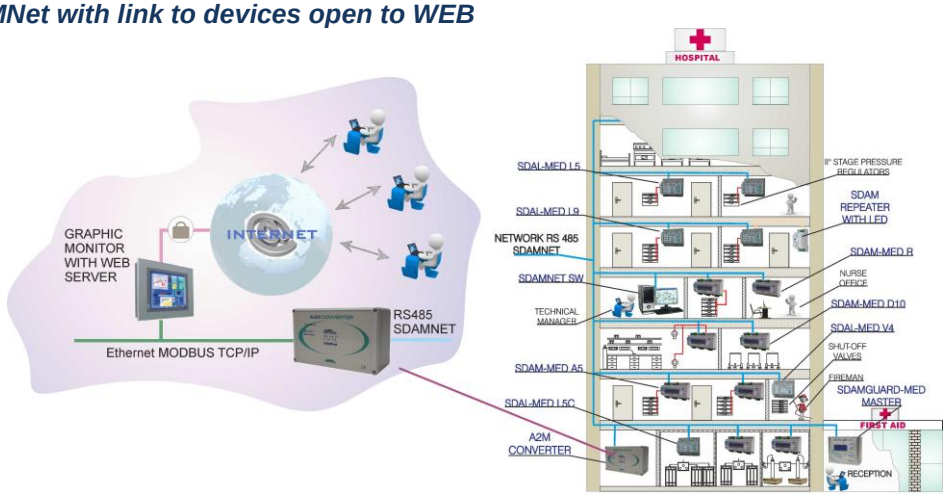
- ***SDAMNet remote monitoring***



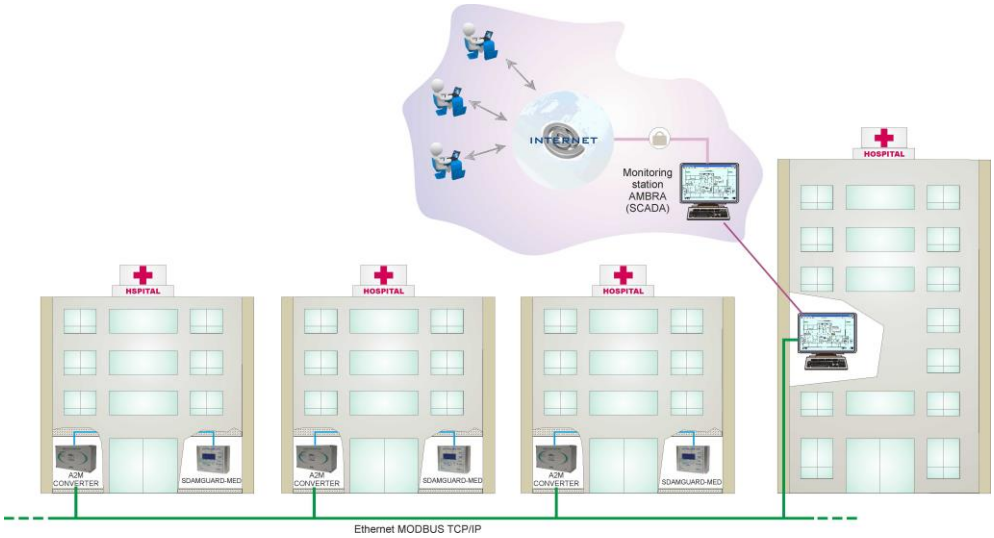
- ***SDAMNet with link to PLC by MODBUS protocol and SCADA monitoring system***



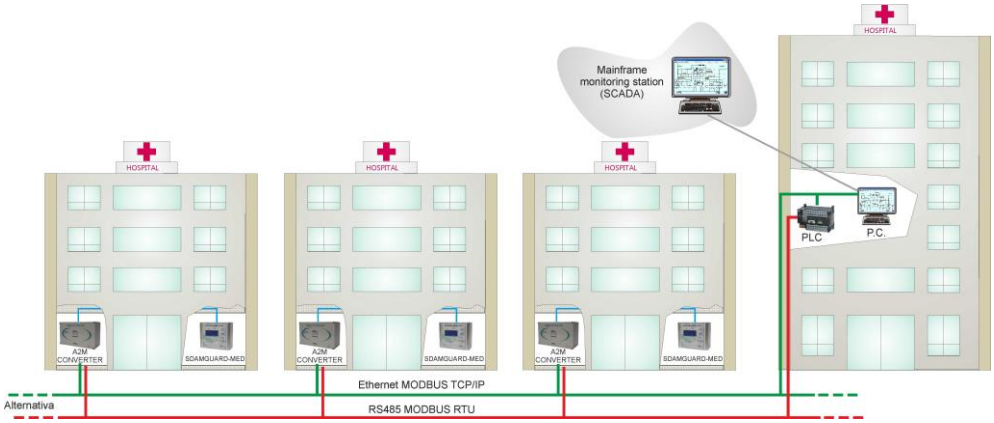
- ***SDAMNet with link to devices open to WEB***



- ***SDAMNet toward devices open to WEB***



- ***SDAMNet toward SCADA mainframe monitoring system***



- ***SDAMNet toward SCADA AMBRA open to WEB***