Silbermann
Medical Gas Systems Since 1950

Ambulance Oxygen Supply and Management System

This Ambulance changeover system is designed to automatically switch between oxygen sources (cylinders), left and right banks, enabling a continuous flow of oxygen to patients in need during transport to medical facilities.

A touchscreen control/alarm panel monitors the gas pressure in each cylinder and shows/alerts the medical staff in case of a pressure drop and other parameters.

Rich interface control/alarm panel displays data graphically and digitally, enables a precise and efficient real-time view of gas supply to patients in the ambulance.

Remote online monitoring of oxygen supply systems for individual ambulances and entire fleets enhances gas utilization efficiency, resulting in significant cost savings.

SMS alert when oxygen pressure reduces to a pre-set level.

Audio and visual alarm.

Ambulance Oxygen Supply and Management System

The System Consists of:

- 10.1" full HD LCD touchscreen.
- Medical gas outlets
  (DIN, ENV, BS, Diamond, DISS).
- Gas sensors/pressure transmitters.
- Oxygen pressure regulators.
- Flexible gas hoses.
- Automatic Changeover unit including manual bypass.
- Flow selector 0-25 lpm.

- Control card/PCB.
- SMS alert sending - optional.
- Web remote view - optional.

Showing the status in the right bank - **In use**

Empty cylinder alert in left bank
after supplying oxygen

Leak detection alert in the right bank
while the left bank supplies oxygen

Highlights

Rich interface touchscreen graphicly and digitaly displaying:

- Actual status of each source - "**In use**" or "**Stand by**".

- Leak detection from cylinders - in case the leak is from the standby cylinder

- Periodical maintenance alert.

- Visual & audio alarm signals in case of low pressure in change between cylinders.

- Log history file - Event logging, recording all alarms and panel activities at each cylinder.

- Gas expiration date alert - an alert for the medical gas cylinder expiration date.

- Customizable text & language - optional.

- A color trend arc showing the gas pressure status on the main line and at each cylinder.

Log History

Gas expiration date alert

Advanced Features

- SMS messages to multiple phone numbers in case of alert when oxygen pressure reduces to a pre-set level - optional.

- **Web remote view on the internet - optional**
  online view accessible via a web browser.
  This website allows authorized users to remotely access and view the data
  on the alarm panel in real-time.

  Additional data: GPS data showing the current location of each ambulance by its number.

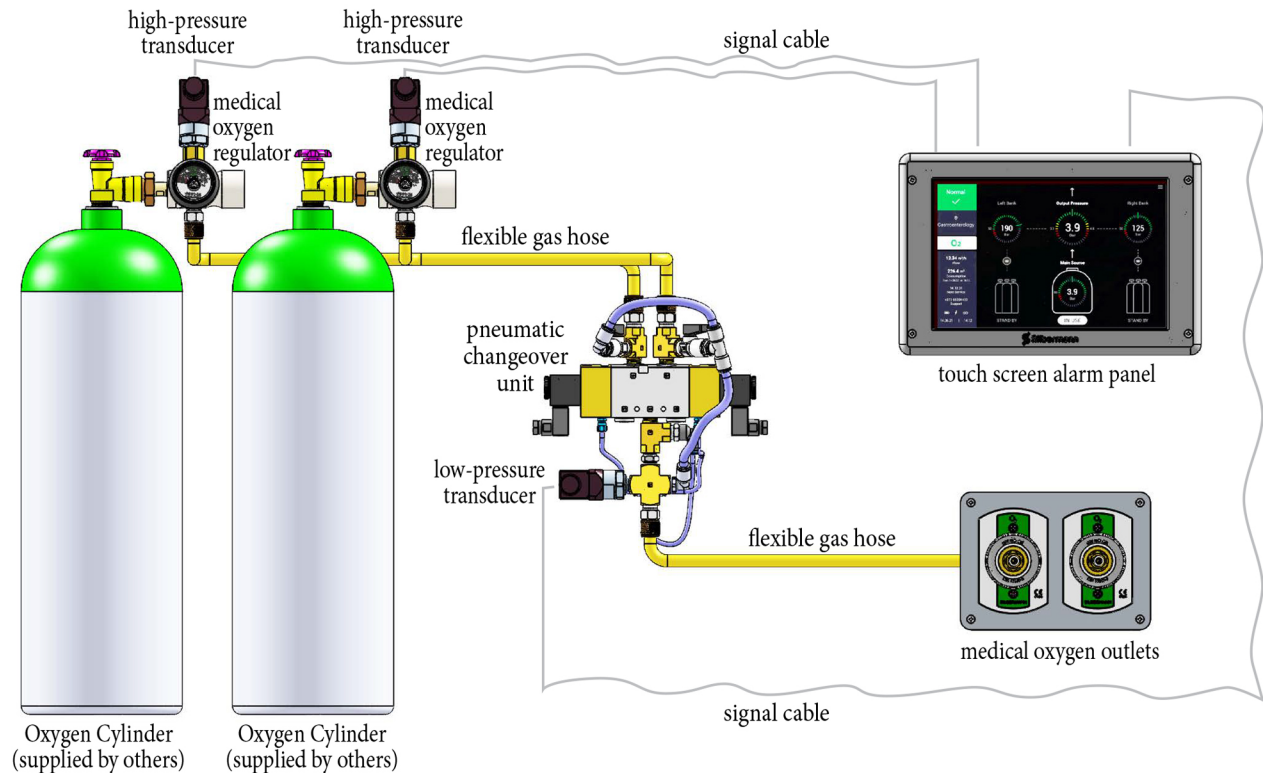- Display of flow rate and consumption figures - optional

SMS alert

Web remote view on the internet

Ambulance Oxygen Supply and Management System

Diagram

high-pressure transducer

high-pressure transducer

signal cable

medical oxygen regulator

medical oxygen regulator

flexible gas hose

pneumatic changeover unit

low-pressure transducer

flexible gas hose

touch screen alarm panel

medical oxygen outlets

signal cable

Oxygen Cylinder (supplied by others)

Oxygen Cylinder (supplied by others)

Advanced Communication

- TCP/IP Modbus

- Update and Upgrading of the software versions with new features is possible anytime after installation.

Applicable Standards

ISO 10524, ISO 5359, EN-1789, NFPA99, NFPA 1917, EN ISO 7396

Silbermann's Quality Management System:

ISO 9001-2015, ISO 13485-2016

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