ULTRA CONTROLO

General Catalog

Alarms and Control Panels

Automatic Control Panel QIA/G

Single stage fully automatic control panel for high-flow medical gases: composed of two GIGANT/R, two High Pressure shut-off valves and two Low Pressure shutoff valves for maintenance, stainless steel case, specific gas inlet connection, in output it has a Ø 22 mm weld-on pipe connector; the maximum flow rate in Nitrogen at 9 bar pressure is 150 Nm^3 / h, 2500 Nl / min.
The two high pressure gauges are electrically contacted, pre-calibrated with a threshold at 15 bar and can be connected to an alarm control unit to signal source empty.

The panel is equipped with a satin-finish AISI 316 steel containment box complete with a door and transparent PLEXIGLASS windows that allow the display of the manometers and any alarm, optional.

To facilitate the installation on the wall, all the components are installed on a satin-finished AISI 316 steel plate.

Manifold Control System QIS/E

The manifold that we describe is designed to allow the filling of an equal number of cylinders at the same time to provide an operational and stock and a reserve stock.

The manifold will deliver the gas from the operational stock to the pressure regulator until it is exhausted. At this stage, the supply will change position to the reserve stock and the first one may be restocked.

Control Panel QIS/A

Control panel for medical gases, with automatic exchange and manual reset; composed of two lines of EURO regulators, complete with High Pressure contact pressure gauge, High Pressure shut-off valve, two overpressure discharge valves, incorporated in the reducers, with Ø 12 mm weld-on pipe connector and a Low Pressure shut-off valve for the maintenance.

On the output there is a Low Pressure gauge to display the line pressure.The input connection is specific for the gas used, on the outlet there's a Ø 16 mm weld-on pipe connector. Its maximum capacity in Nitrogen at 9 bar outlet pressure is 72 Nm^3 / h, 1200 Nl / min.

The two High Pressure gauges of the reducers are electrically contacted, pre-calibrated with an alarm threshold at 15 bar and can be connected to an alarm control unit to signal manifold empty.

Gas Alarm Relay CA4G-1

The CA4G-1 alarm module is used to control alarms in medical gas distribution systems. The device can be mounted on EN 60715 compliant DIN rails, per DIN 43880 and complies with EN60601-1 and ISO 7396-1 international standards.

The alarm can stand alone or function as a device in a network of other alarm modules connected on a RS485 bus, supplied as standard. It has 9 inputs, normally connected to contact pressure gauges, which are opt isolated to provide high noise immunity. The channels can be configured as Normally Closed (NC) or Normally Open (NO), usually the contacts of the pressure gauges must be closed.

Master Alarm UC-TMAF501 Series

The Master Alarm System shall be Ultra Controlo UC-TMAF501 series, complete with a five-year warranty.

Each module shall be microprocessor based and field adjustable and managed by software if required. Each module can handle up to 12 functions and there is no limite to increase the modules up to 100 inputs or more as they will be installed in a minimum 18 gauge (1,3 mm) steel box.

The Master Alarm shall accept free potential inputs as well as RS485 ModBus communication since the Zone alarm modules UC-TMATFT for gases with digital display and the Zone Alarm UC-TMA6518 for free potential inputs, all uses dry contacts relays or RS 485 ModBus communication.

Third Source Control Panel QUA/G3

Third source panel consisting of a single reducer, two pressure gauges, a High Pressure shut-off valve, a gas specific inlet connection and on the outlet a Ø 22 mm weld-on pipe connector; the maximum flow rate in Nitrogen at 7,5 bar pressure is 120 Nm^3 / h, 2000 Nl / min.

The High Pressure electric contact pressure gauge is pre calibrated with a threshold at 100 bar (30 for N2O and CO2) and can be connected to a control panel alarm for discharged source.

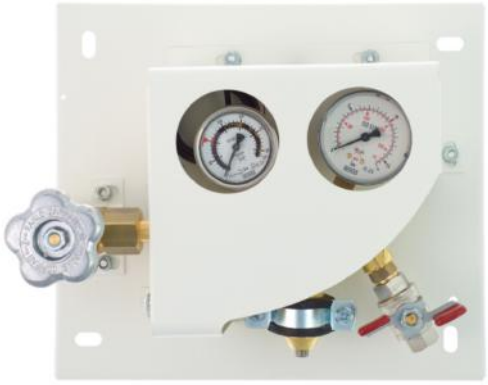
The panel is equipped with a satin-finish AISI 316 steel containment case complete with door and transparent PLEXIGLASS windows that allow the display of the gauges. To facilitate the installation on the wall, all components are installed on a satin-finished AISI 316 steel plate.

Third Source Control Panel QIS/E3

2-stage control module for medical gases, consisting of a High Pressure model 451 regulator and a Low Pressure model 451 regulator, both made of CW614N brass. As well as the two regulators, the module also has a High Pressure gauge, a High Pressure shut-off valve, two overpressure discharge valves integrated into the pressure regulators that can be connected with a Ø16 mm weld-on pipe connector, and a Low Pressure shut-off valve for servicing. Low Pressure gauge on the outlet to measure line pressure.

The inlet connection is specific for the gas used, the outlet is fitted with a Ø 22 mm weld-on pipe connector. Its maximum nitrogen capacity at 7.5 bar outlet pressure is 70 Nm^3/h, 1166 Nl/min.

Third Source Control Panel



Third source panel consisting of a single reducer EURO/A model, two pressure gauges, a High Pressure shut-off valve, gas specific inlet connection, a Ø10 mm weld-on pipe connector on the outlet; its maximum capacity in Nitrogen at 7,5 bar outlet pressure is 48 Nm^3 / h, 800 Nl / min.

The High Pressure gauge of the reducer is electrically contacted, pre-calibrated with a threshold at 100 bar (30 for N2O and CO2) and can be connected to an alarm control unit to signal manifold empty.

The framework is protected from atmospheric agents through a metal structure in white painted steel with windows that allow the display of the gauges. To facilitate wall fixing, all the components are installed on a white painted steel plate.

Fourth Source Control Panel QUA/G3

Fourth source panel consisting of a single GIGANT/R reducer, two pressure gauges, a High Pressure shut-off valve, a gas specific inlet connection and on the outlet a Ø 22 mm weld-on pipe connector. The maximum flow rate in Nitrogen at 9 bar pressure is 150 Nm^3 / h, 2200 Nl / min.

The panel is equipped with a satin-finish AISI 316 steel containment case complete with door and transparent PLEXIGLASS windows that allow the display of the gauges.

The panel is equipped with a satin-finish AISI 316 steel containment case complete with door and transparent PLEXIGLASS windows that allow the display of the gauges. To facilitate the installation on the wall, all components are installed on a satin-finished AISI 316 steel plate.

Fourth Source Control Panel QUIS/G3

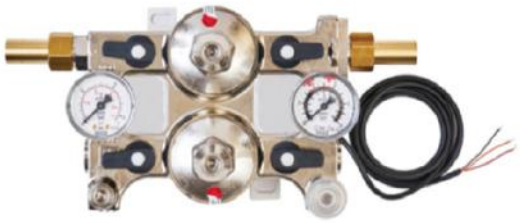
Fourth source panel for medical gases, double-stage, composed of two in line reducers; complete with High Pressure gauge, High Pressure shut-off valve, two overpressure discharge valves incorporated in the reducers, conveyable with Ø 16 mm weld-on pipe connectior and a Low Pressure shut-off valve for maintenance, on the output there is a Low Pressure gauge to display the line pressure; the inlet connection is specific for the gas used and on the outlet there's a Ø 22 mm weld-on pipe connector. Its maximum capacity in Nitrogen at 7.5 bar of outlet pressure is 70 Nm^3 / h, 1166 Nl / min.

The control unit is protected by an identification PLEXIGLASS. Wall fixing with powder-coated metal plate.

2nd Stage Reducer with Built-in Area

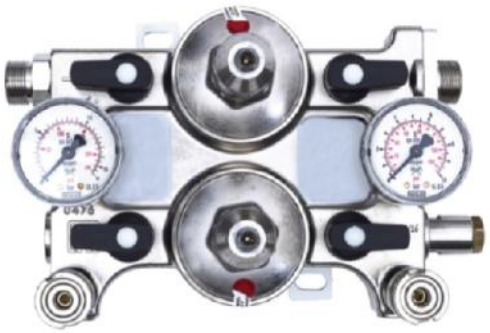
The unit is made of two chemically nickel-plated brass castings, one casting for the regulators bodies, and the other casting for the zone shut-off valve; the regulator body has two decompression lines with two EURO/A regulators connected in by-pass through four ball valves, two on the inlet and two on the outlet of the same.

2nd Stage Reducer with Built-in Area Valve



The 2nd stage unit is made of cast chemically nickel-plated brass; the regulator body has two decompression lines with two EURO/A regulators connected in bypass through four ball valves, two on the inlet and two on the outlet of the same; one pressure gauge measures the pressure upstream of the regulators and another pressure gauge with electrical contacts measures the outlet pressure. All the valve seats and pressure gauges are fitted with check valves to prevent gas leaks when servicing.

2nd Stage Reducer with Threaded G1/4



The 2nd stage unit is made of cast CW614N chemically nickel-plated brass; the device has a pressure gauge that shows the pressure upstream of the reducers and another pressure gauge that shows the operating pressure; there is also a G 1/4" F R threaded fitting which can be used to install any kind of accessory.

All the valve seats and pressure gauges are fitted with check valves to prevent gas leaks when servicing. The inlet and outlet connections are made using a Ø12 mm weld-on pipe. The unit also has a block for physi-

Medical Gas Alarm Realay for 2nd Stage CA4G-2

The CA4G-2 alarm module is used to control alarms in medical gas distribution systems.

The alarm can stand alone or function as a device in a network of other alarm modules connected on a RS485 bus, supplied as standard. It has 9 inputs, normally connected to contact pressure gauges, which are isolated to provide high noise immunity.

Medical Gas Alarm Relay for Valves CA4G-3

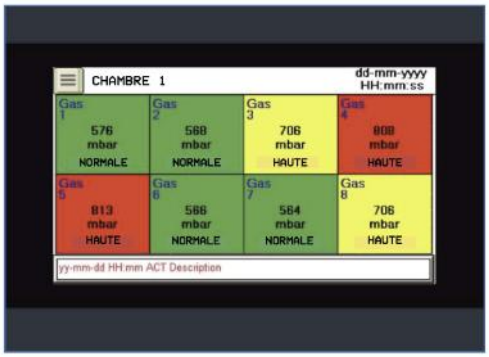
The CA4G-3 alarm module is used to control alarms in medical gas distribution systems. The device can be mounted on EN 60715 compliant DIN rails, per DIN 43880 and complies with EN60601-1 and ISO 7396-1 international standards.

The alarm can stand alone or function as a device in a network of other alarm modules connected on a RS485 bus, supplied as standard. It has 9 inputs, normally connected to contact pressure gauges, which are opt isolated to provide high noise immunity.

Gas Alarm CAGM40

CAGM is a remote control that displays the operating status of RTU (Remote Telemetry Unit) modules in the SCAGM supervision system. One typical application is in hospitals, where the terminal is installed in supervised places and used to monitor all the alarms coming from the gas control modules and the various wards.

Alarme QuGas



QuGas is a surveillance and supervision system developed by ULTRA CONTROLO for the monitoring and management of critical functions in a hospital environment.

In this case, monitoring of medical gas pressures, temperature, purity, flow rate, dew point, concentration, levels, among other parameters and manage their status up to 8 functions, on a 4.5 '' screen with a friendly and multi interface -language.

Alarme QuAir

The QuAir 3P and QuAir 5P electrical control boxes are destined to maintain a constant pressure level at different flow rates, commanding from 1 to 6 compressors.

Siemens Digital Display

Basic Panel, Key/touch operation, 4" TFT display, 65536 colors, PROFINET interface, configurable from WinCC Basic V13/ STEP 7 Basic V13, contains open-source software, which is provided free of charge see enclosed CD.